

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101818\
 Data File : VX005434.D
 Acq On : 18 Oct 2018 17:03
 Operator : JC/MD
 Sample : J5549-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CB-1018-S-TCLP-GRID-45

Quant Time: Oct 19 03:34:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	303903	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	445418	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	394676	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	187180	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	172070	51.02	ug/l	0.00
Spiked Amount			Recovery	=	102.04%	
35) Dibromofluoromethane	5.50	113	141209	47.87	ug/l	0.00
Spiked Amount			Recovery	=	95.74%	
50) Toluene-d8	8.71	98	526889	52.02	ug/l	0.00
Spiked Amount			Recovery	=	104.04%	
62) 4-Bromofluorobenzene	11.14	95	171435	45.06	ug/l	0.00
Spiked Amount			Recovery	=	90.12%	

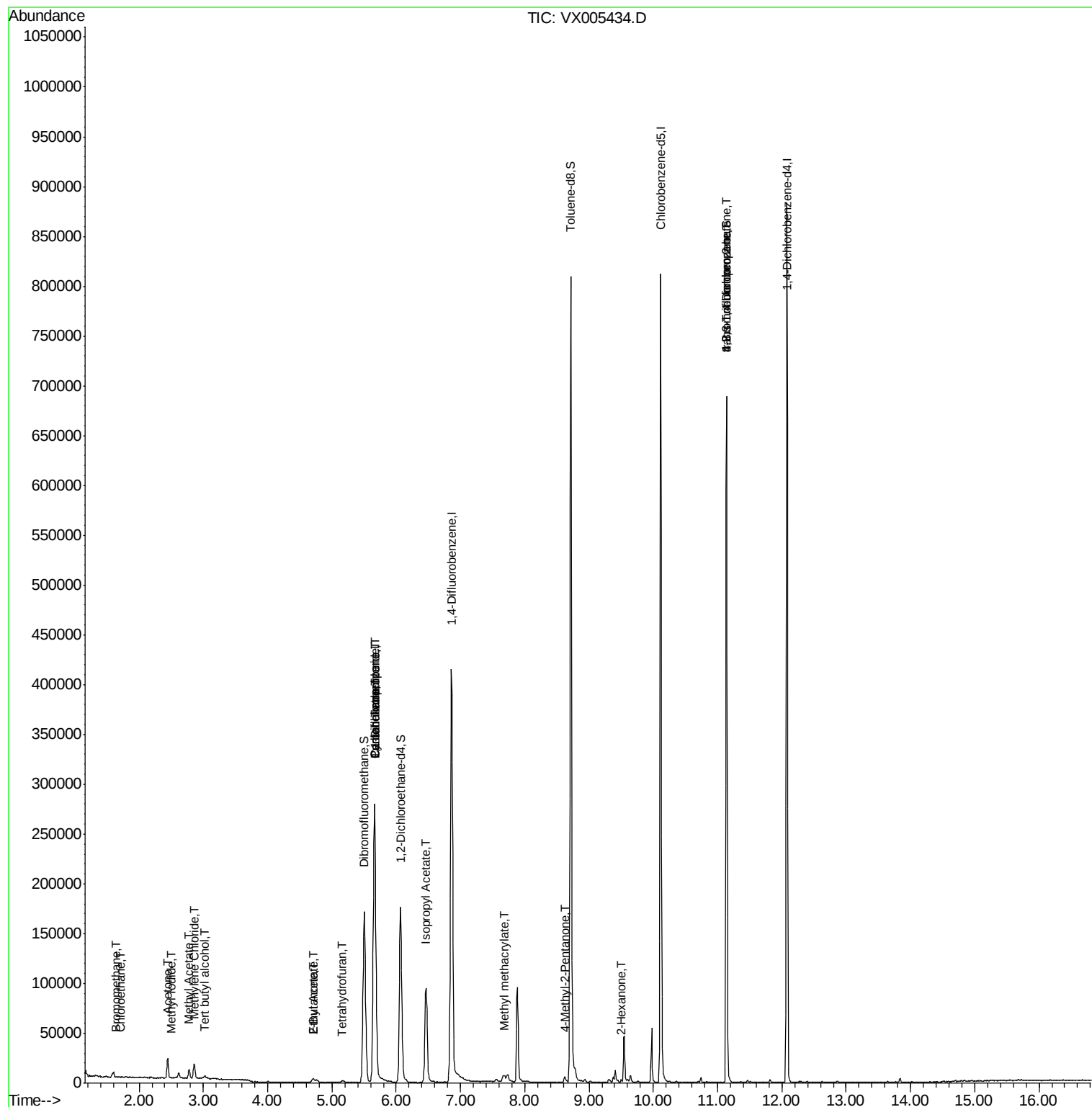
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	481	0.826	ug/l #	35
6) Chloroethane	1.72	64	624	0.608	ug/l #	79
10) Methyl Iodide	2.51	142	129	2.530	ug/l #	61
11) Tert butyl alcohol	3.02	59	2012	2.115	ug/l #	78
13) Acrolein	2.29	56	100	Below Cal	#	1
16) Acetone	2.45	43	20418	10.470	ug/l	98
18) Methyl Acetate	2.78	43	10993	1.981	ug/l	98
20) Methylene Chloride	2.86	84	6474	0.996	ug/l	98
25) 2-Butanone	4.71	43	7913	2.773	ug/l #	83
29) Tetrahydrofuran	5.16	42	1964	1.079	ug/l #	78
31) Cyclohexane	5.66	56	5009	1.080	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	19604	4.544	ug/l #	49
37) Ethyl Acetate	4.71	43	7913	1.426	ug/l #	68
38) Carbon Tetrachloride	5.67	117	26520	6.118	ug/l #	16
43) Isopropyl Acetate	6.46	43	138217	18.703	ug/l	96
44) Trichloroethene	7.21	130	82	Below Cal		62
48) Methyl methacrylate	7.69	41	5701	1.487	ug/l #	19
51) 4-Methyl-2-Pentanone	8.62	43	1740	0.340	ug/l #	34
59) 2-Hexanone	9.50	43	1088	0.264	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	82697	22.777	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	82697	69.207	ug/l #	10

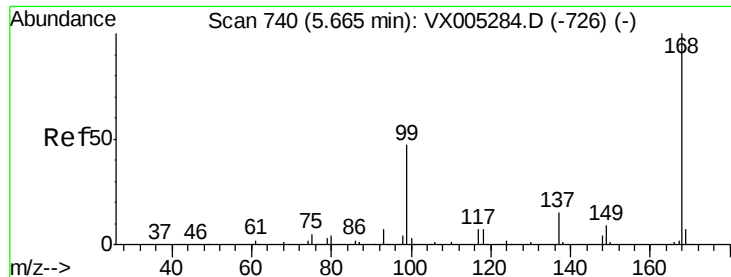
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Oct 12 11:28:43 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX005434.D

Acq: 18 Oct 2018 17:03

Instrument :

MSVOA_X

ClientSampleId :

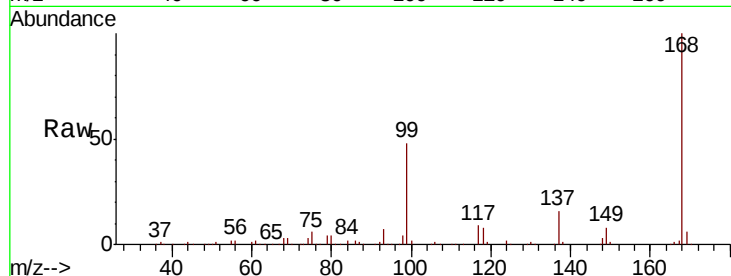
CB-1018-S-TCLP-GRID-45

Tot Ion:168 Resp: 303903

Ion Ratio Lower Upper

168 100

99 48.0 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

60000

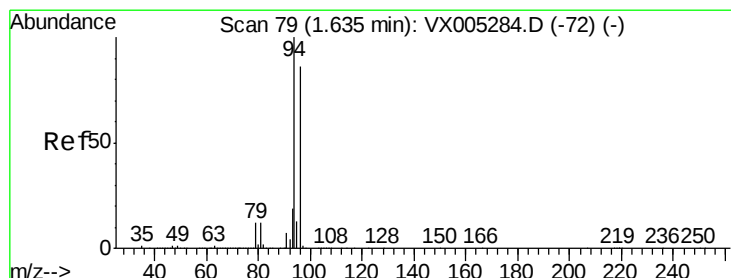
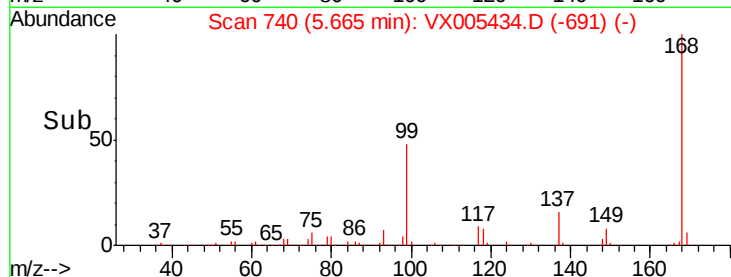
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: 0.826 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005434.D

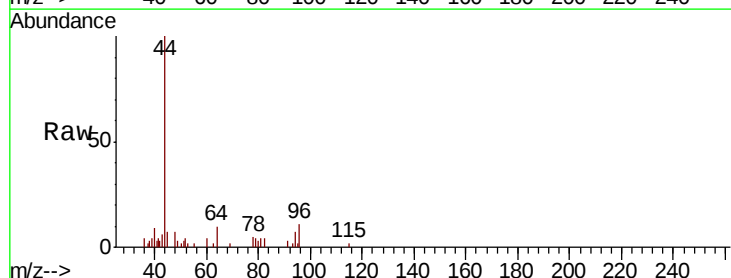
Acq: 18 Oct 2018 17:03

Tgt Ion: 94 Resp: 481

Ion Ratio Lower Upper

94 100

96 155.2 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

300

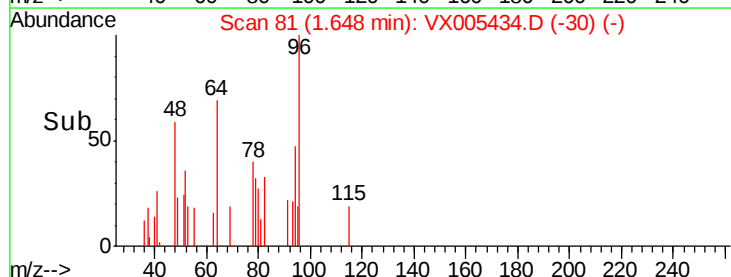
200

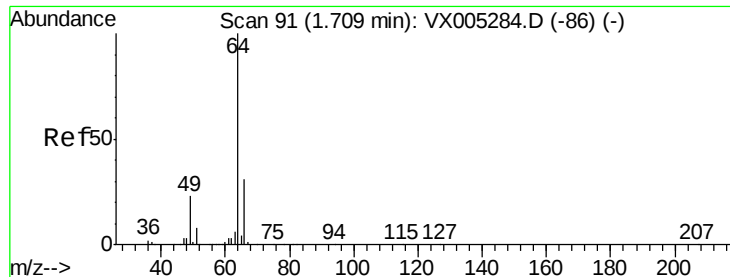
100

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 0.608 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX005434.D

Acq: 18 Oct 2018 17:03

Instrument :

MSVOA_X

ClientSampleId :

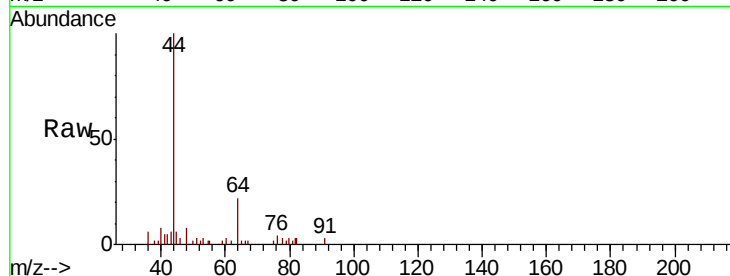
CB-1018-S-TCLP-GRID-45

Tot Ion: 64 Resp: 624

Ion Ratio Lower Upper

64 100

66 19.3 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

800

600

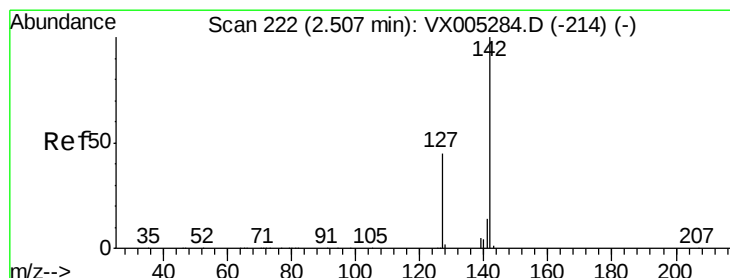
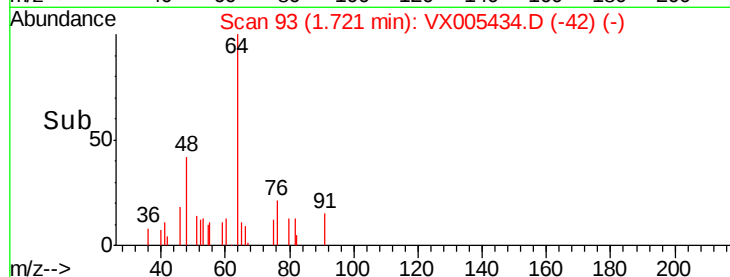
400

200

0

1.65 1.70 1.75

Time-->



#10

Methyl Iodide

Concen: 2.530 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX005434.D

Acq: 18 Oct 2018 17:03

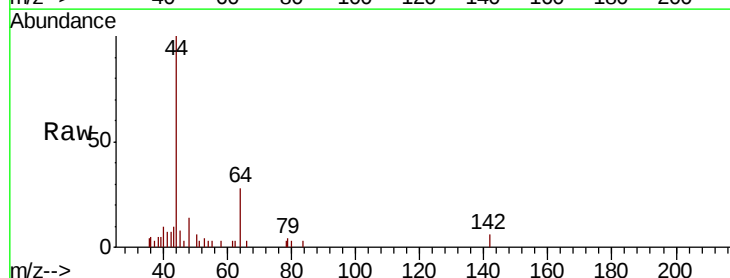
Tgt Ion: 142 Resp: 129

Ion Ratio Lower Upper

142 100

127 16.3 33.8 50.6#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

150

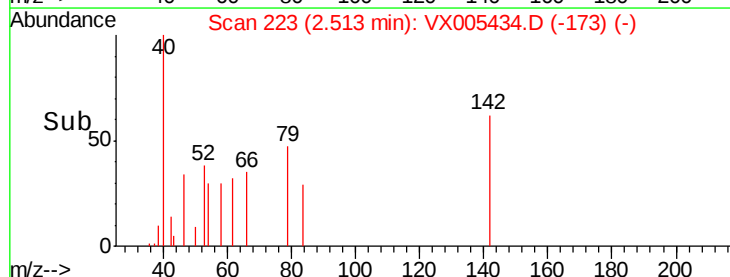
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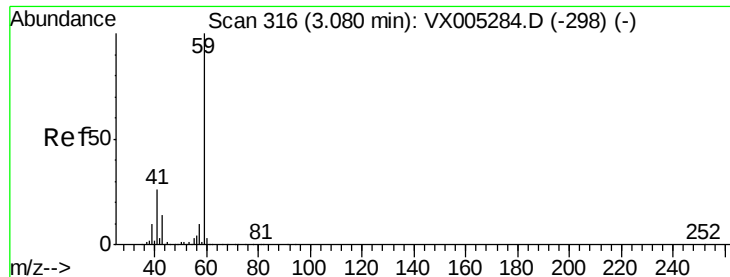
50

0

2.48 2.50 2.52 2.54

Time-->



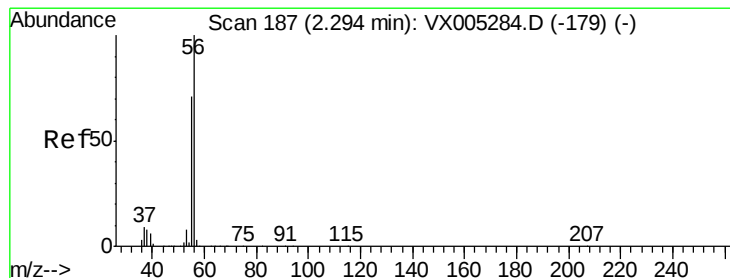
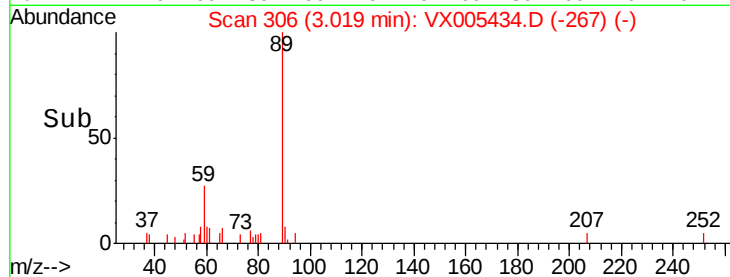
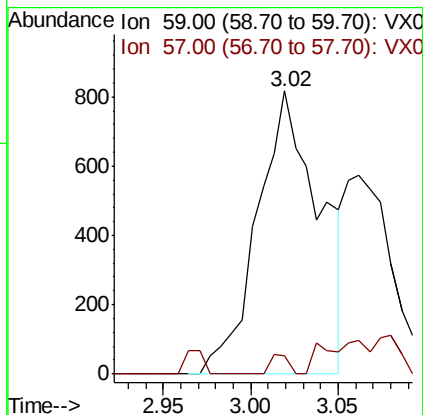
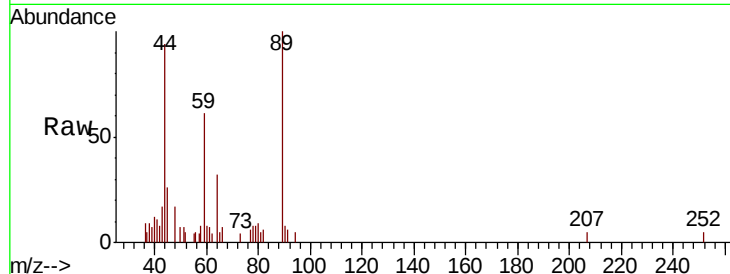


#11

Tert butvl alcohol
 Concen: 2.115 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.06 min
 Lab File: VX005434.D
 Acq: 18 Oct 2018 17:03

Instrument :
 MSVOA_X
 ClientSampleId :
 CB-1018-S-TCLP-GRID-45

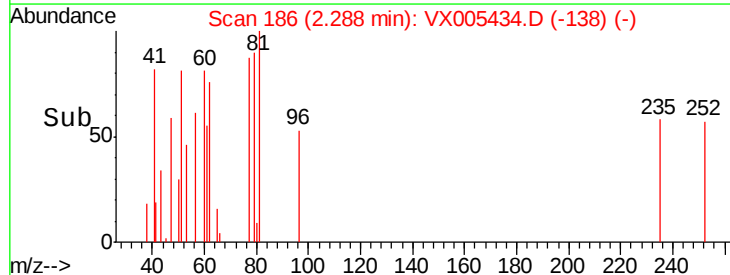
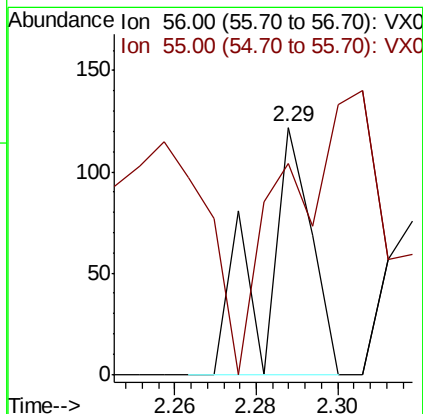
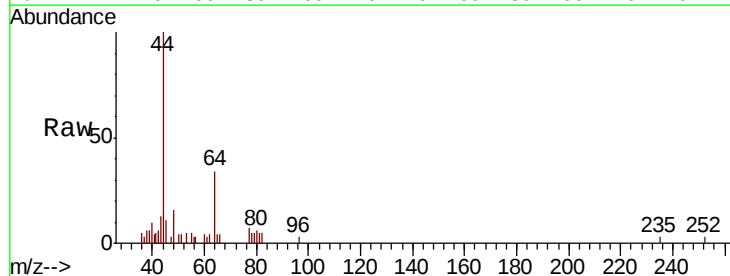
Tot Ion: 59 Resp: 2012
 Ion Ratio Lower Upper
 59 100
 57 2.0 8.2 12.4#

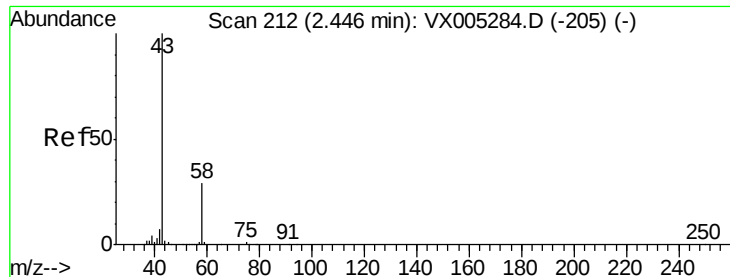


#13

Acrolein
 Concen: Below Cal
 RT: 2.29 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VX005434.D
 Acq: 18 Oct 2018 17:03

Tgt Ion: 56 Resp: 100
 Ion Ratio Lower Upper
 56 100
 55 238.0 54.7 82.1#





#16

Acetone

Concen: 10.470 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005434.D

Acq: 18 Oct 2018 17:03

Instrument :

MSVOA_X

ClientSampleId :

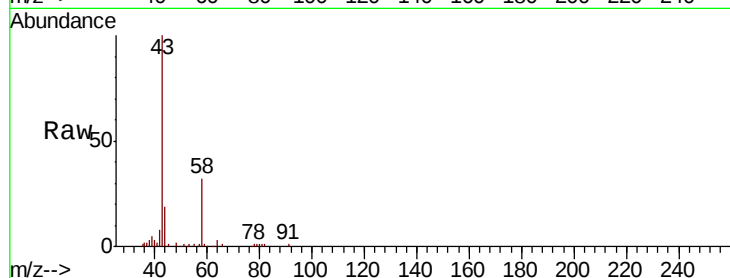
CB-1018-S-TCLP-GRID-45

Tot Ion: 43 Resp: 20418

Ion Ratio Lower Upper

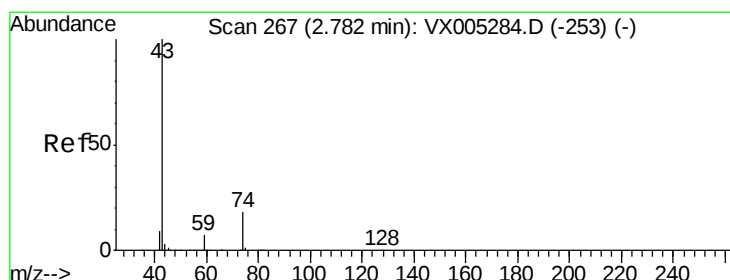
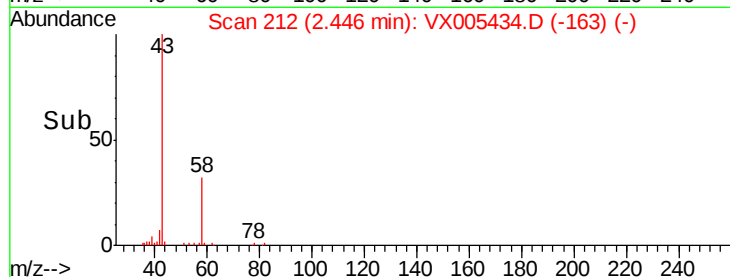
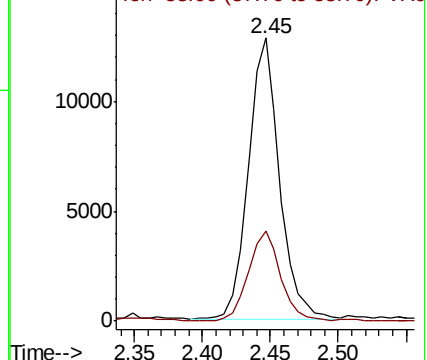
43 100

58 31.9 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 1.981 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX005434.D

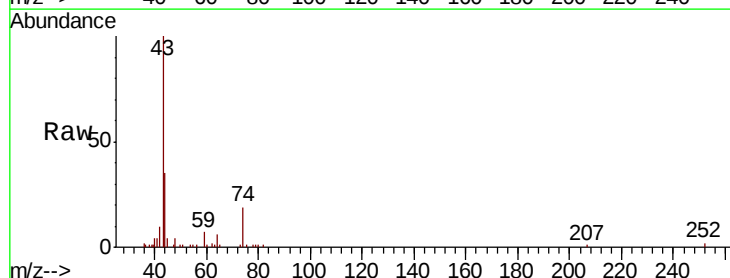
Acq: 18 Oct 2018 17:03

Tgt Ion: 43 Resp: 10993

Ion Ratio Lower Upper

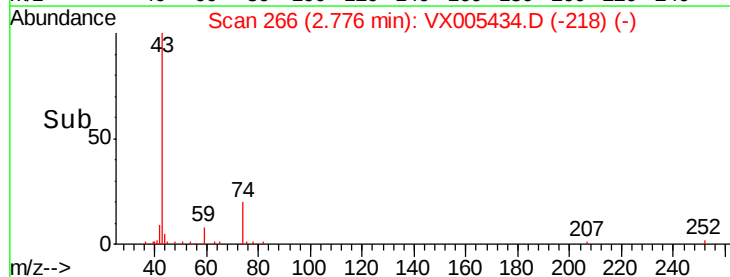
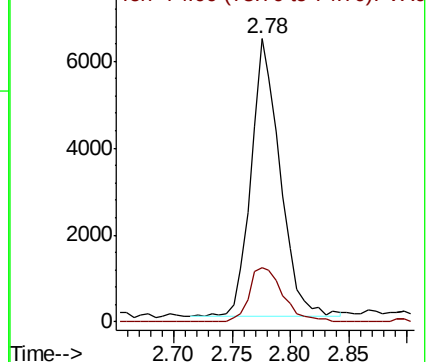
43 100

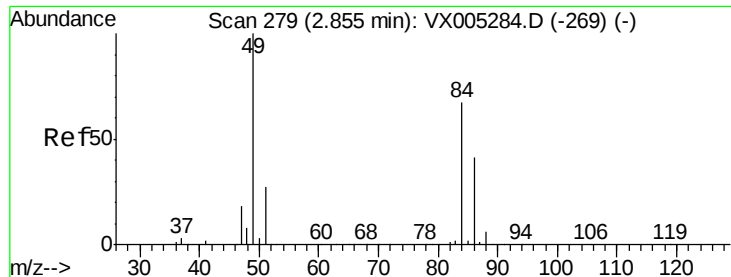
74 23.1 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

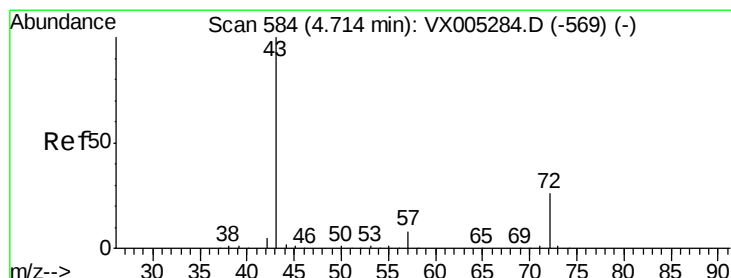
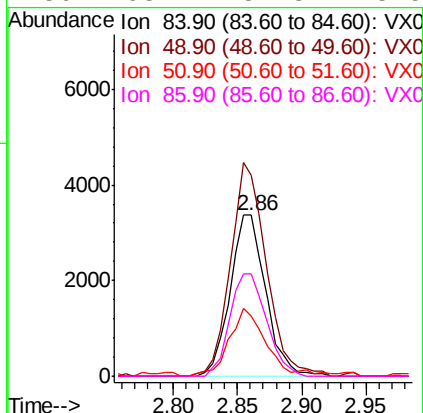
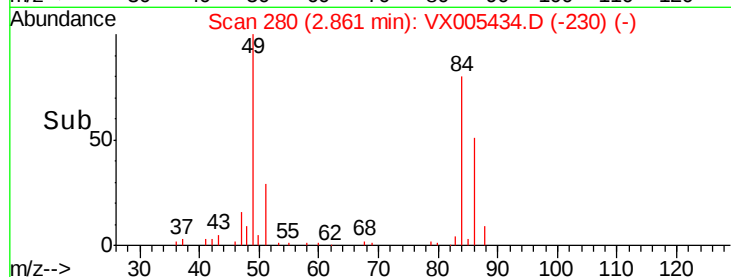
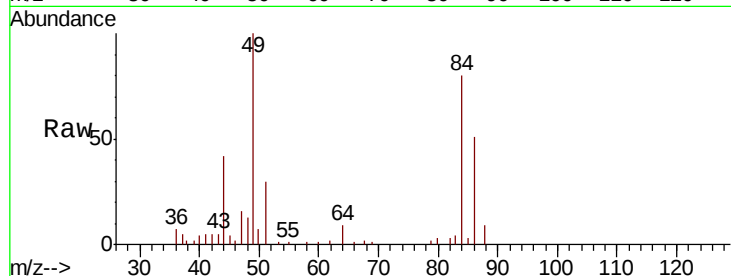




#20
Methvlene Chloride
Concen: 0.996 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005434.D
Acq: 18 Oct 2018 17:03

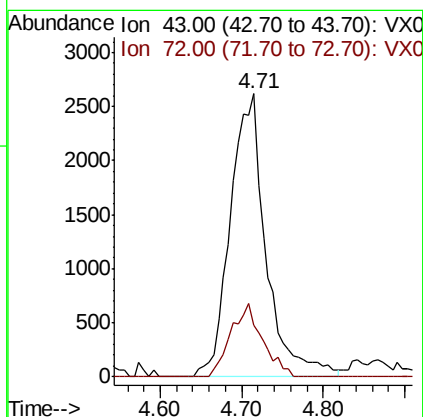
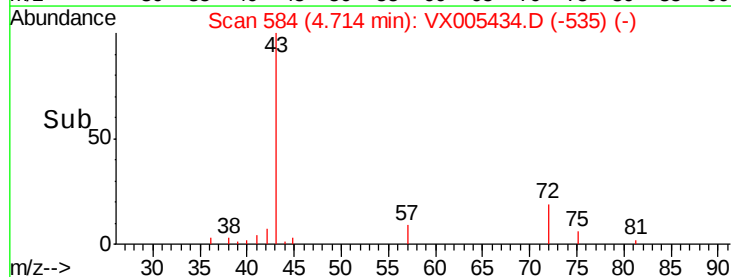
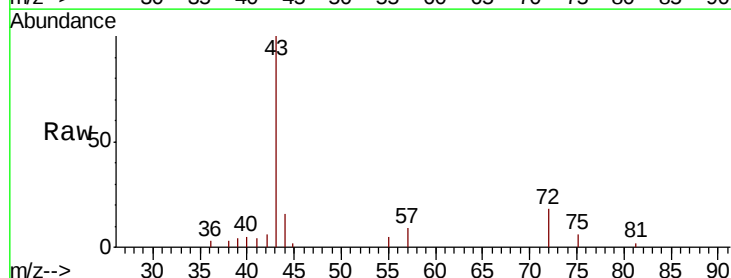
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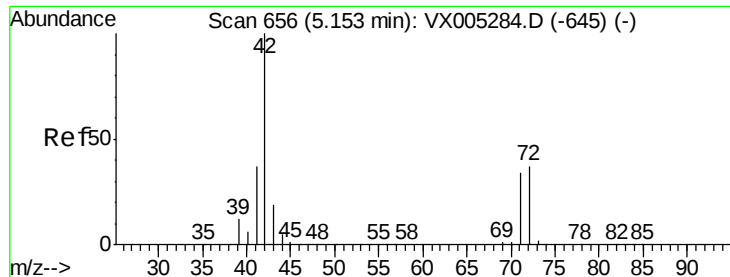
Tot Ion: 84	Resp: 6474
Ion Ratio	Lower Upper
84 100	
49 125.0	101.2 151.8
51 37.3	29.5 44.3
86 63.4	52.3 78.5



#25
2-Butanone
Concen: 2.773 ug/l
RT: 4.71 min Scan# 584
Delta R.T. 0.00 min
Lab File: VX005434.D
Acq: 18 Oct 2018 17:03

Tgt Ion: 43	Resp: 7913
Ion Ratio	Lower Upper
43 100	
72 18.4	22.0 33.0#

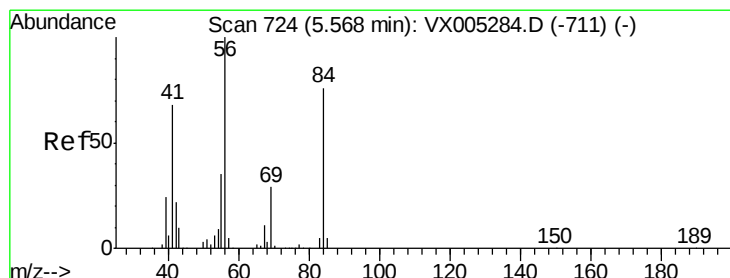
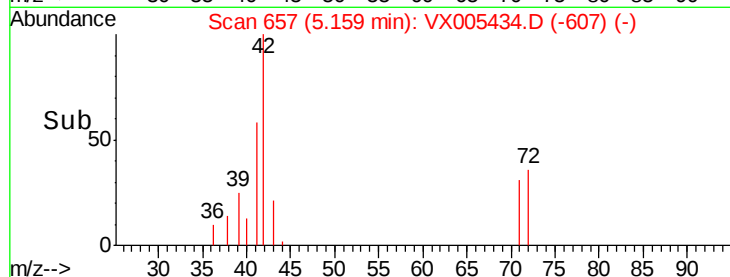
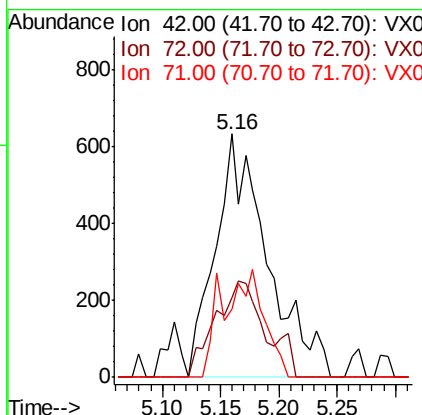
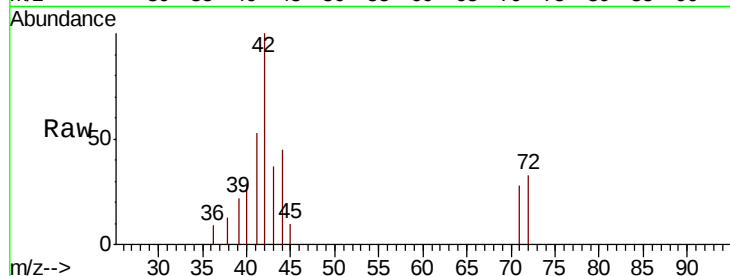




#29
Tetrahydrofuran
Concen: 1.079 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX005434.D
Acq: 18 Oct 2018 17:03

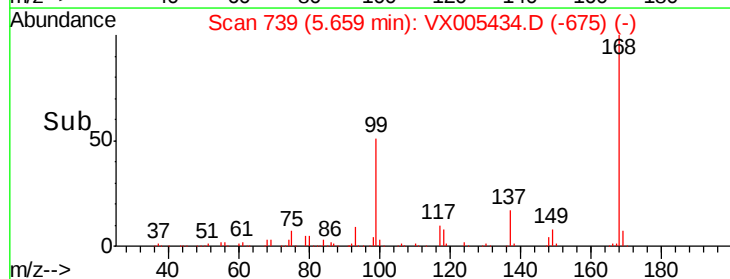
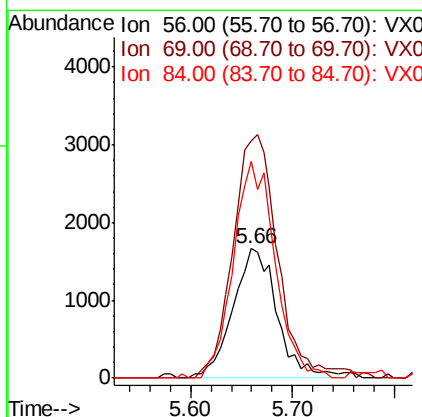
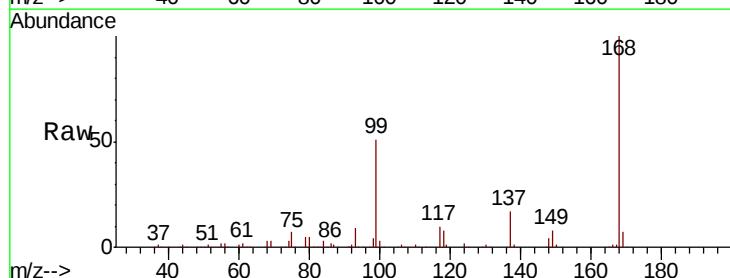
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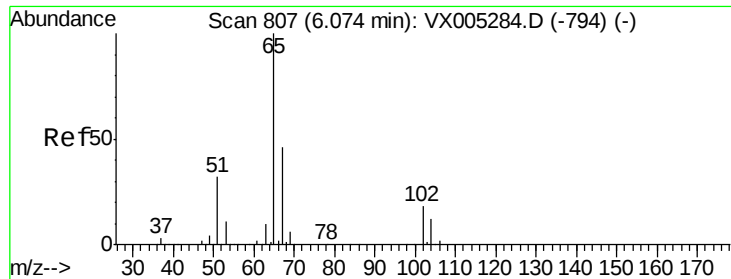
Tot Ion: 42 Resp: 1964
Ion Ratio Lower Upper
42 100
72 38.1 37.4 56.0
71 22.3 34.5 51.7#



#31
Cyclohexane
Concen: 1.080 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005434.D
Acq: 18 Oct 2018 17:03

Tgt Ion: 56 Resp: 5009
Ion Ratio Lower Upper
56 100
69 183.7 25.4 38.2#
84 167.5 71.4 107.2#





#33

1,2-Dichloroethane-d4

Concen: 51.016 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.01 min

Lab File: VX005434.D

Acq: 18 Oct 2018 17:03

Instrument :

MSVOA_X

ClientSampleId :

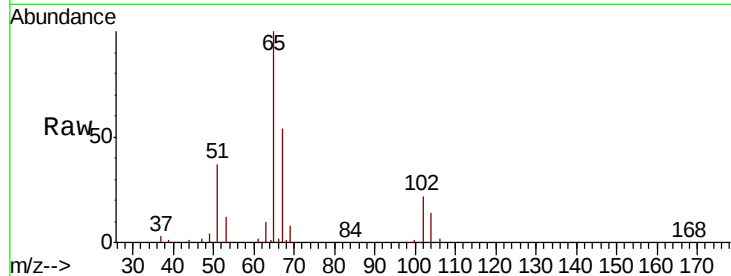
CB-1018-S-TCLP-GRID-45

Tot Ion: 65 Resp: 172070

Ion Ratio Lower Upper

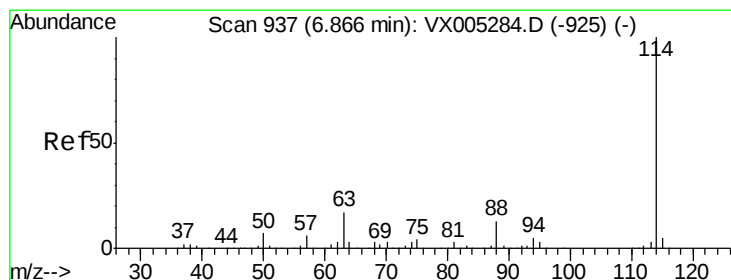
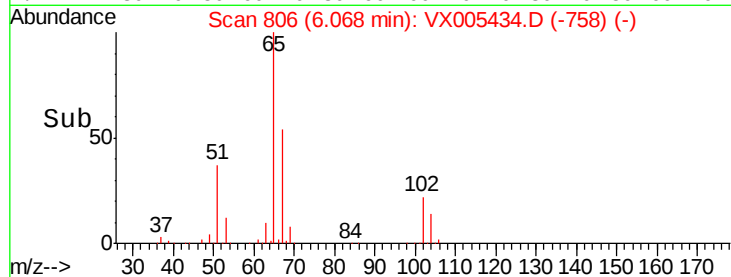
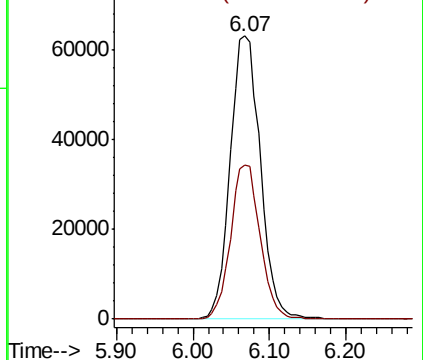
65 100

67 53.5 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.01 min

Lab File: VX005434.D

Acq: 18 Oct 2018 17:03

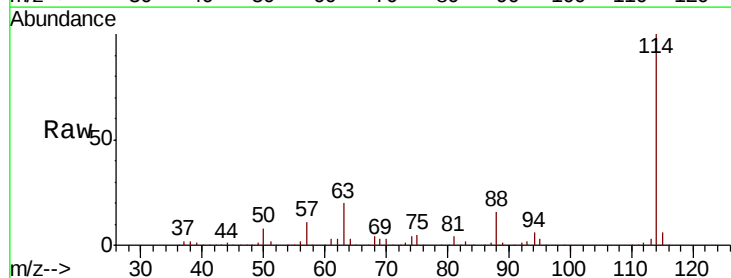
Tgt Ion: 114 Resp: 445418

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.0

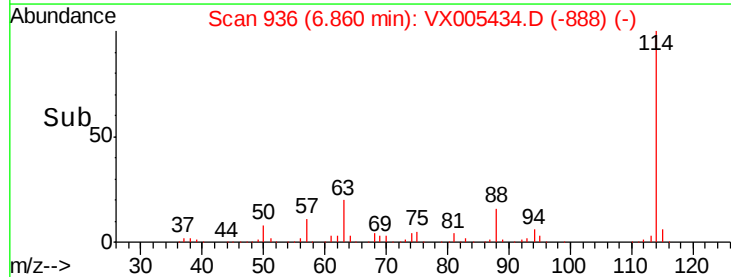
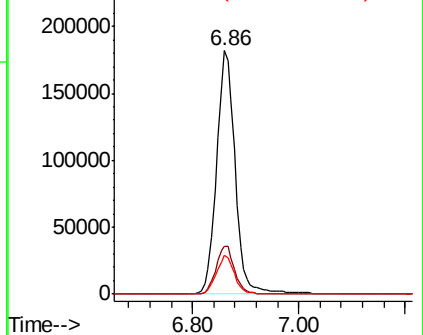
88 15.7 0.0 30.4

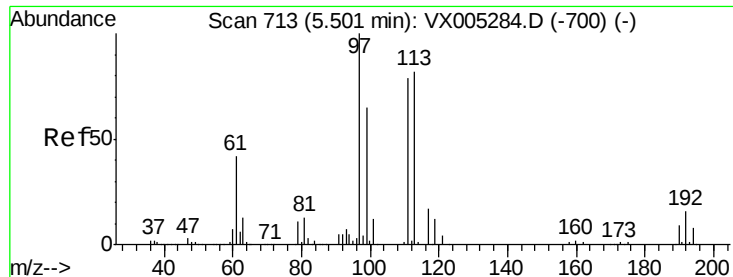


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 47.866 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX005434.D

Acq: 18 Oct 2018 17:03

Instrument :

MSVOA_X

ClientSampleId :

CB-1018-S-TCLP-GRID-45

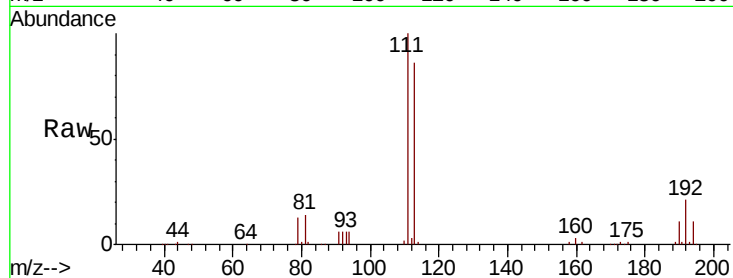
Tot Ion:113 Resp: 141209

Ion Ratio Lower Upper

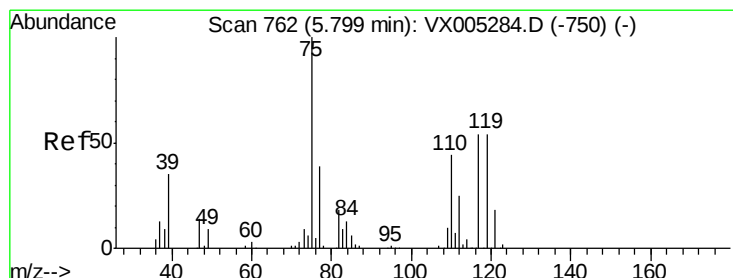
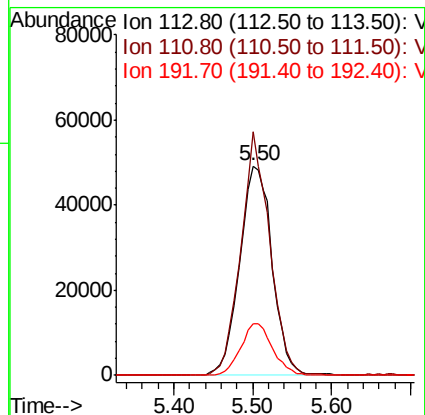
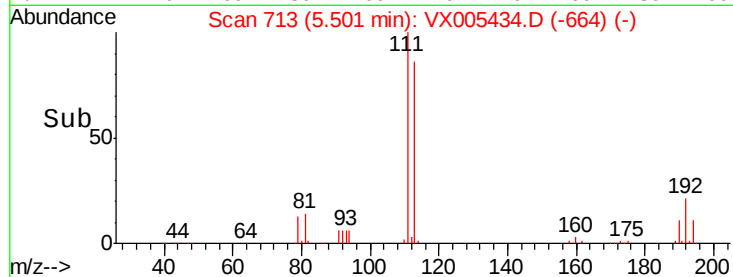
113 100

111 103.2 82.4 123.6

192 24.3 19.4 29.2



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: 4.544 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005434.D

Acq: 18 Oct 2018 17:03

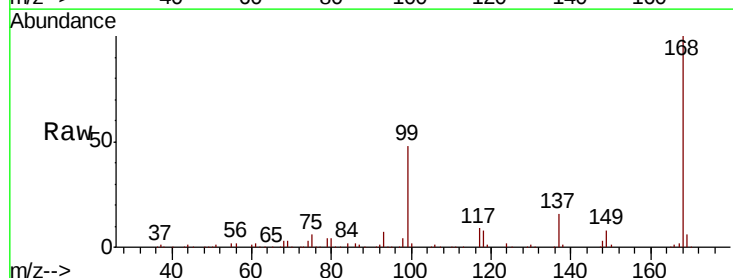
Tgt Ion: 75 Resp: 19604

Ion Ratio Lower Upper

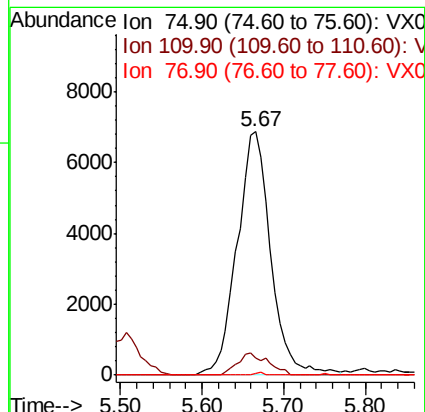
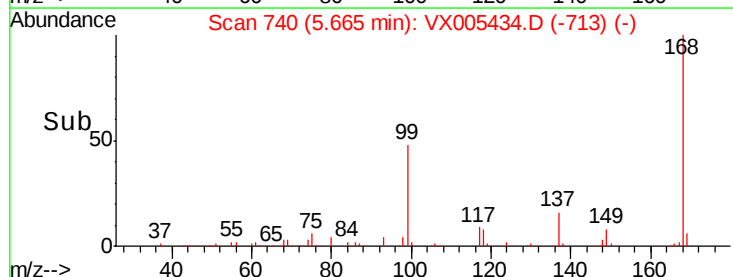
75 100

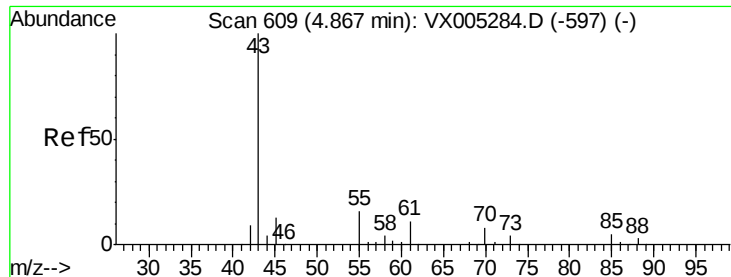
110 8.2 18.0 54.0#

77 0.2 24.6 36.8#



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





#37

Ethyl Acetate

Concen: 1.426 ug/l

RT: 4.71 min Scan# 584

Delta R.T. -0.15 min

Lab File: VX005434.D

Acq: 18 Oct 2018 17:03

Instrument :

MSVOA_X

ClientSampleId :

CB-1018-S-TCLP-GRID-45

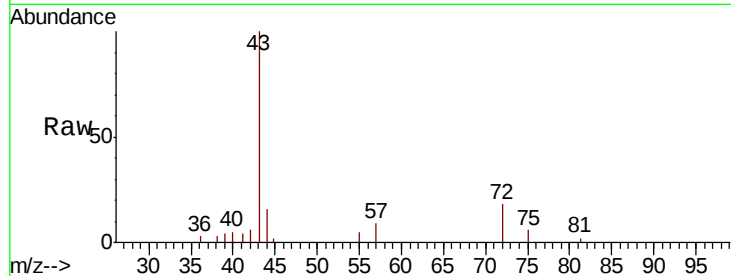
Tot Ion: 43 Resp: 7913

Ion Ratio Lower Upper

43 100

61 0.0 11.5 17.3#

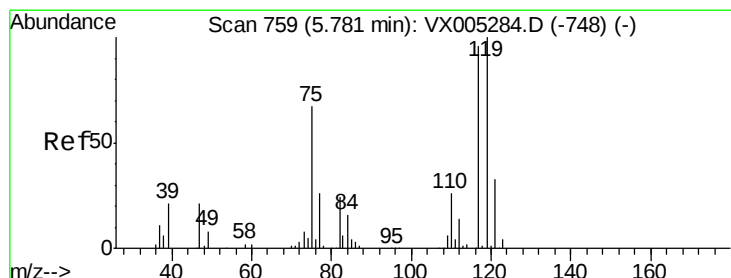
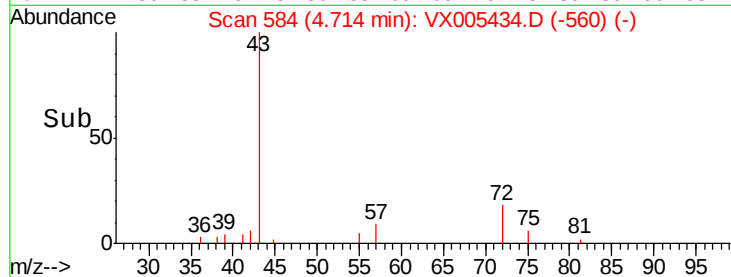
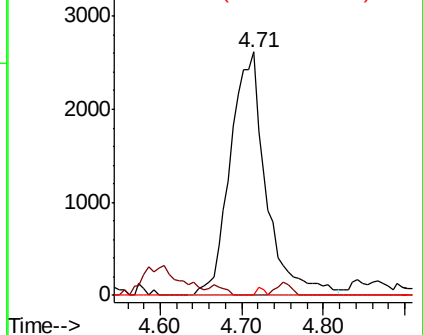
70 0.6 9.0 13.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 6.118 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005434.D

Acq: 18 Oct 2018 17:03

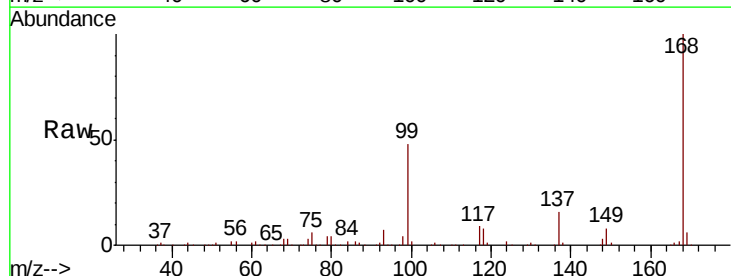
Tgt Ion: 117 Resp: 26520

Ion Ratio Lower Upper

117 100

119 6.0 78.8 118.2#

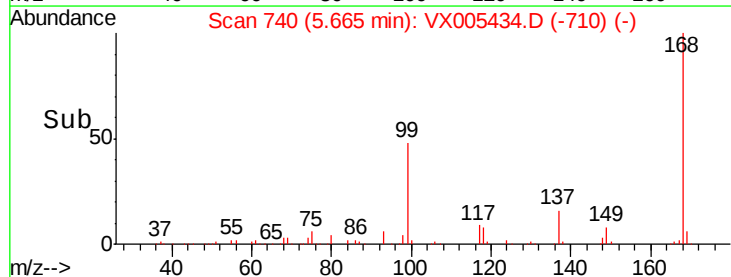
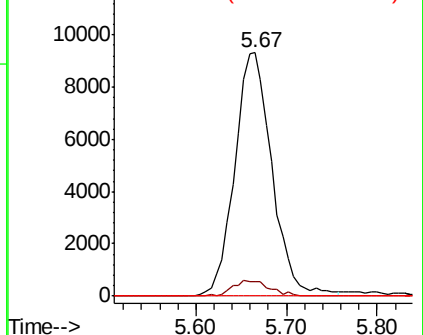
121 0.0 24.9 37.3#

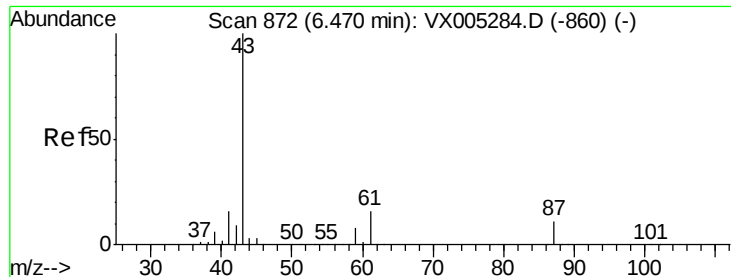


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



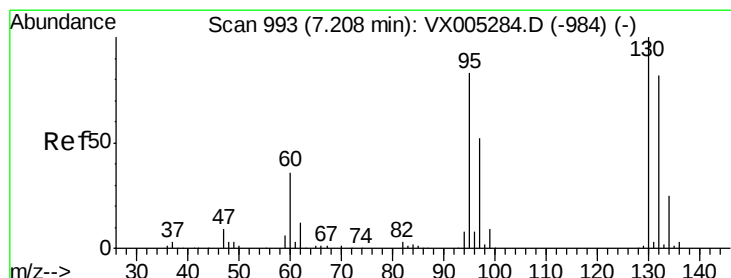
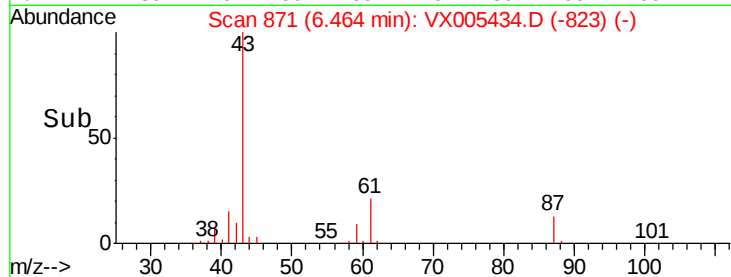
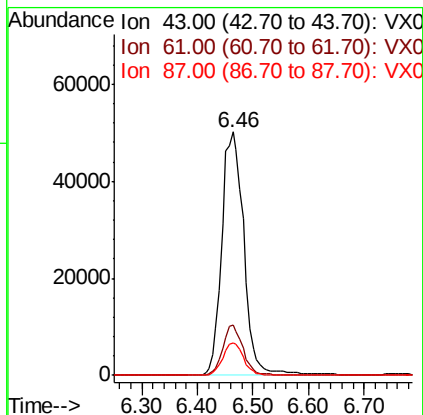
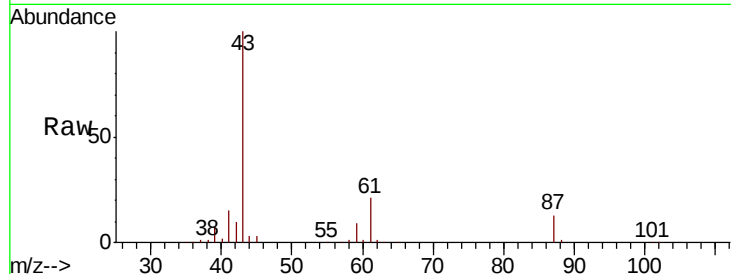


#43

Isopropyl Acetate
 Concen: 18.703 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. -0.01 min
 Lab File: VX005434.D
 Acq: 18 Oct 2018 17:03

Instrument :
 MSVOA_X
 ClientSampleId :
 CB-1018-S-TCLP-GRID-45

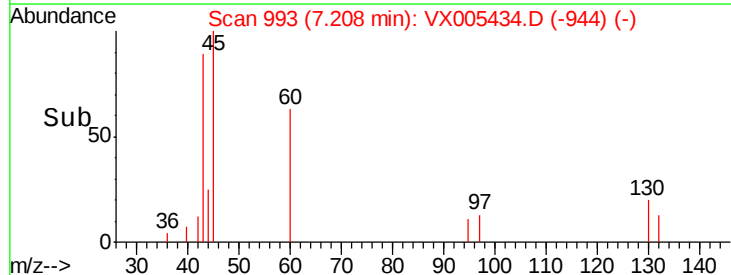
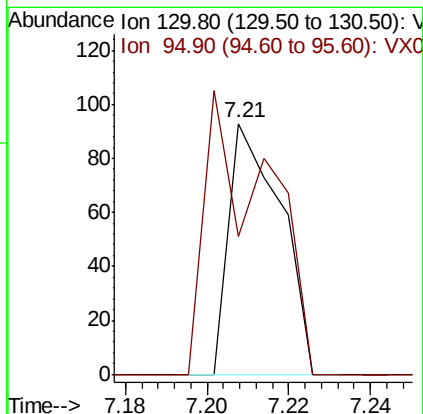
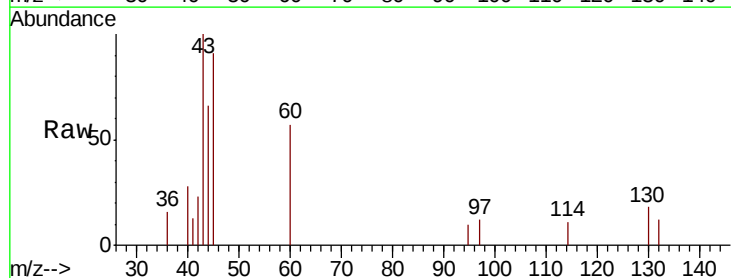
Tot Ion: 43 Resp: 138217
 Ion Ratio Lower Upper
 43 100
 61 19.1 17.0 25.4
 87 12.7 11.4 17.2

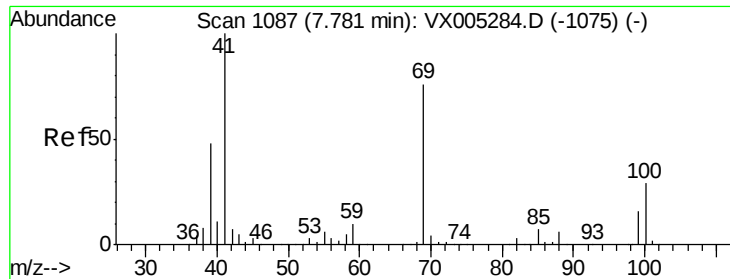


#44

Trichloroethene
 Concen: Below Cal
 RT: 7.21 min Scan# 993
 Delta R.T. 0.00 min
 Lab File: VX005434.D
 Acq: 18 Oct 2018 17:03

Tgt Ion: 130 Resp: 82
 Ion Ratio Lower Upper
 130 100
 95 54.8 0.0 181.6

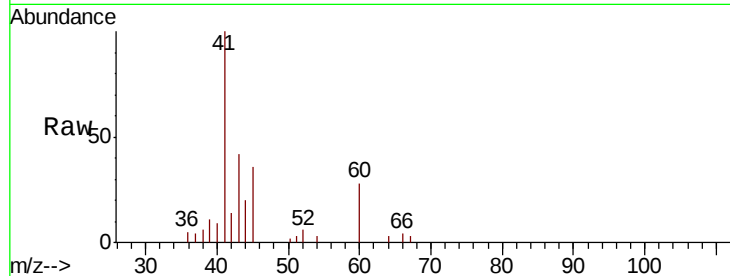




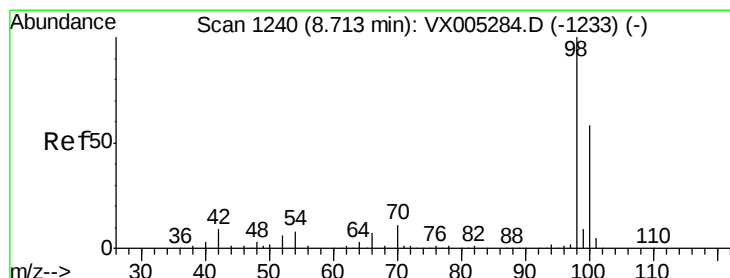
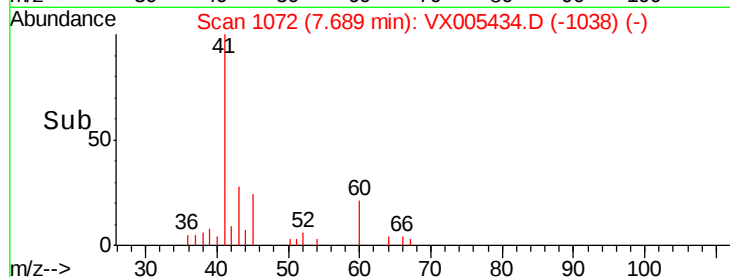
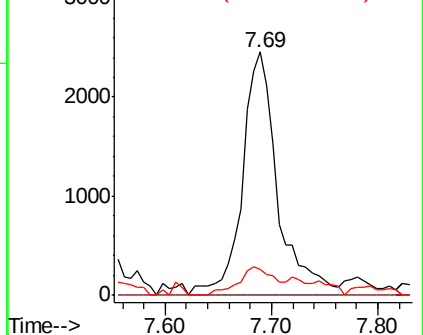
#48
Methvl methacrylate
Concen: 1.487 ug/l
RT: 7.69 min Scan# 1072
Delta R.T. -0.09 min
Lab File: VX005434.D
Acq: 18 Oct 2018 17:03

Instrument :
MSVOA_X
ClientSampleId :
CB-1018-S-TCLP-GRID-45

Tot Ion: 41 Resp: 5701
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.4#
39 12.1 42.7 64.1#

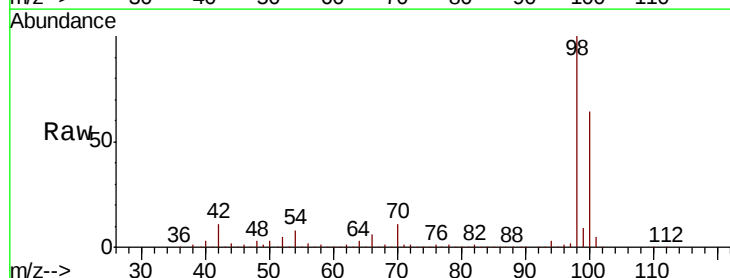


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

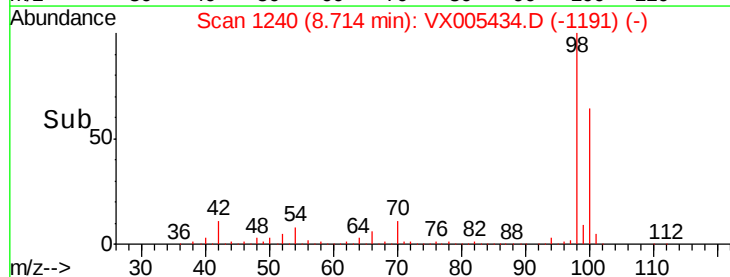
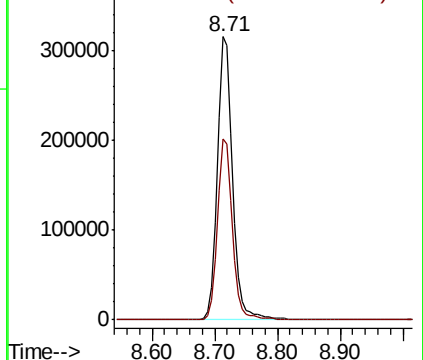


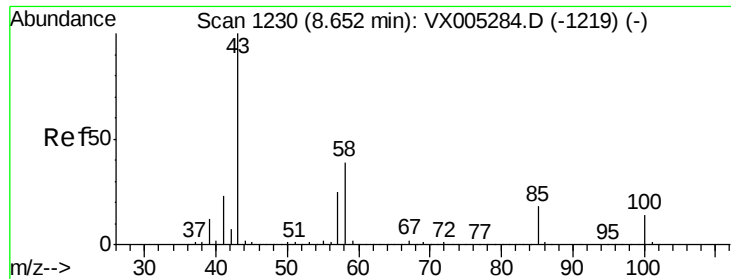
#50
Toluene-d8
Concen: 52.023 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX005434.D
Acq: 18 Oct 2018 17:03

Tgt Ion: 98 Resp: 526889
Ion Ratio Lower Upper
98 100
100 63.5 52.9 79.3



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: 0.340 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX005434.D

Acq: 18 Oct 2018 17:03

Instrument :

MSVOA_X

ClientSampleId :

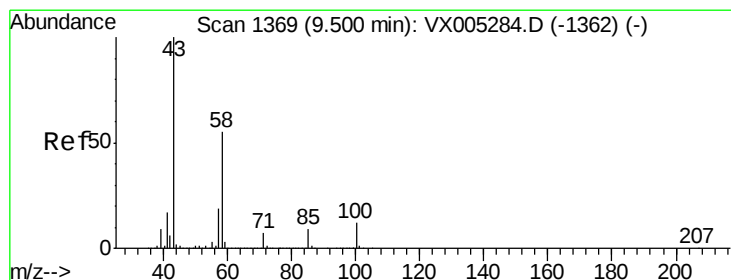
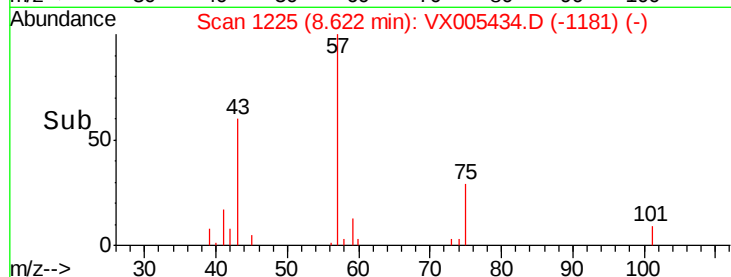
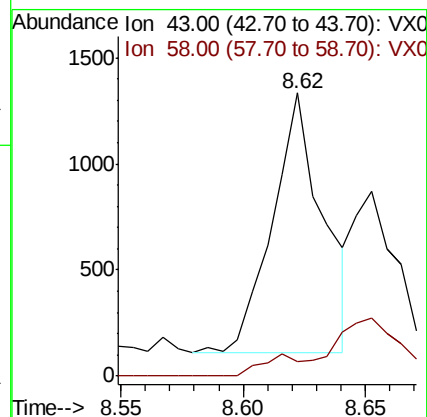
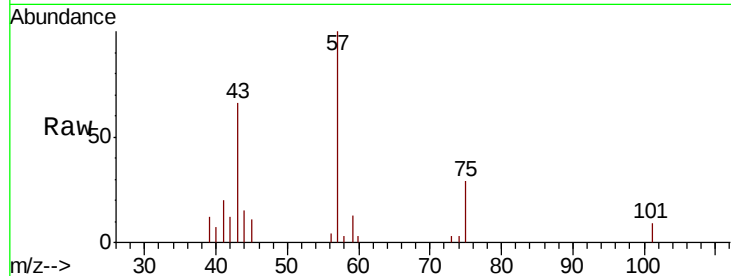
CB-1018-S-TCLP-GRID-45

Tot Ion: 43 Resp: 1740

Ion Ratio Lower Upper

43 100

58 0.0 33.1 49.7#



#59

2-Hexanone

Concen: 0.264 ug/l

RT: 9.50 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VX005434.D

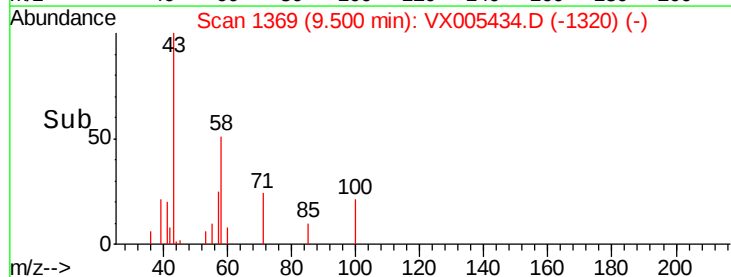
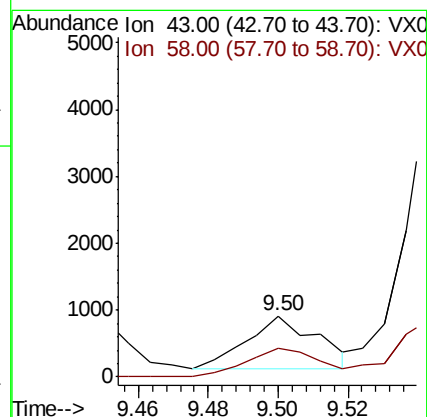
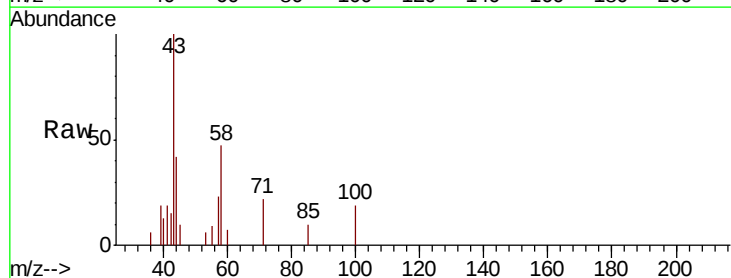
Acq: 18 Oct 2018 17:03

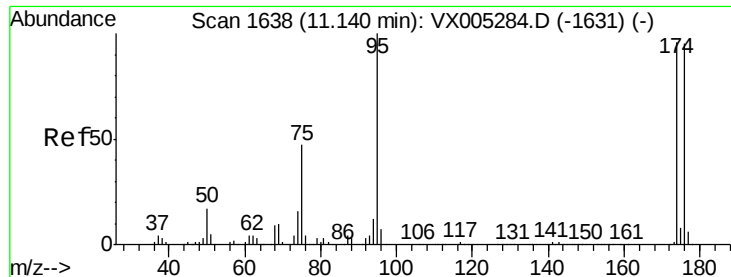
Tgt Ion: 43 Resp: 1088

Ion Ratio Lower Upper

43 100

58 56.5 29.0 87.0

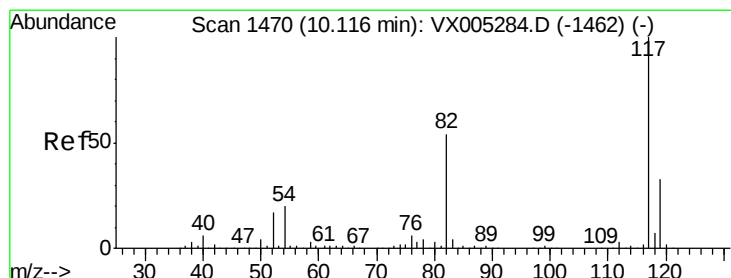
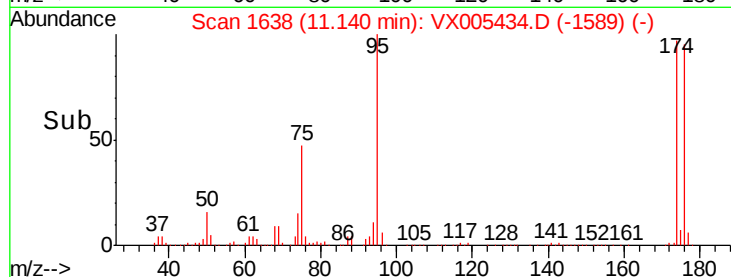
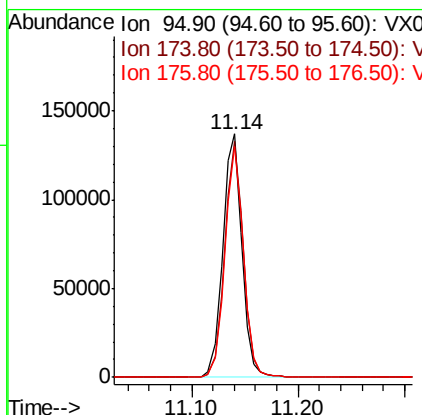
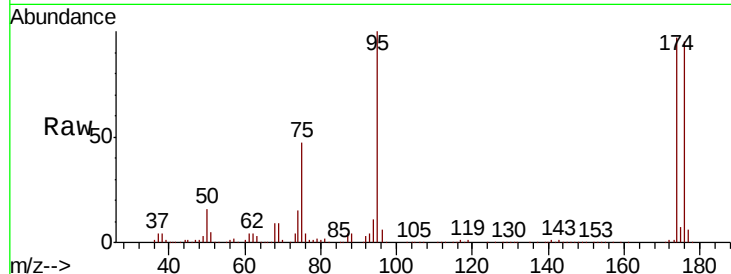




#62
4-Bromofluorobenzene
Concen: 45.059 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX005434.D
Acq: 18 Oct 2018 17:03

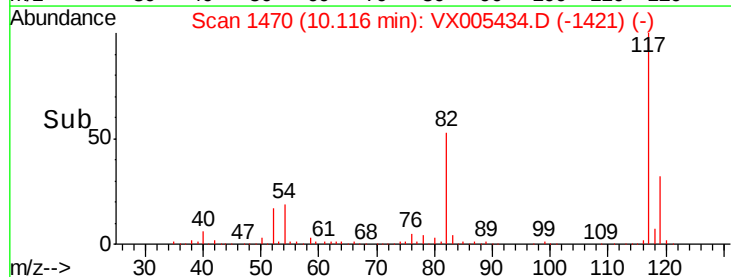
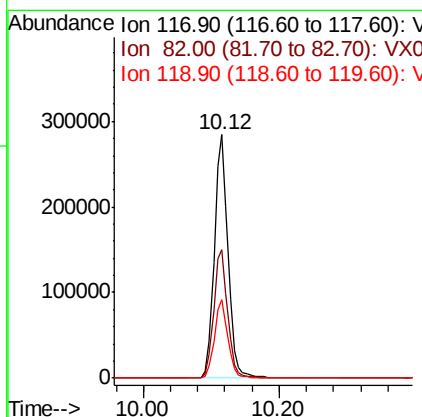
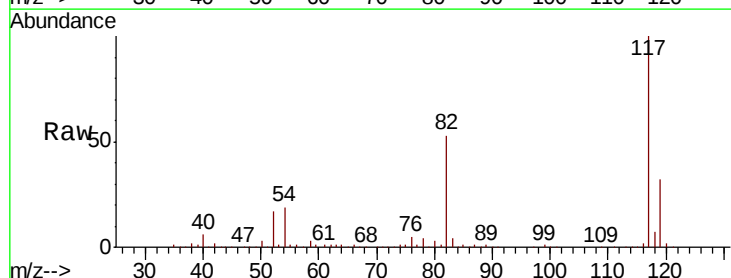
Instrument :
MSVOA_X
ClientSampleId :
CB-1018-S-TCLP-GRID-45

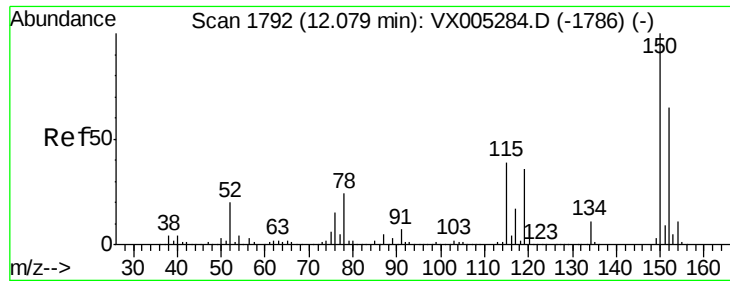
Tot Ion	95	Resp	171435
Ion Ratio	100		
Lower		0.0	185.2
Upper		0.0	178.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005434.D
Acq: 18 Oct 2018 17:03

Tgt Ion	117	Resp	394676
Ion Ratio	100		
Lower		47.8	71.6
Upper		29.3	43.9



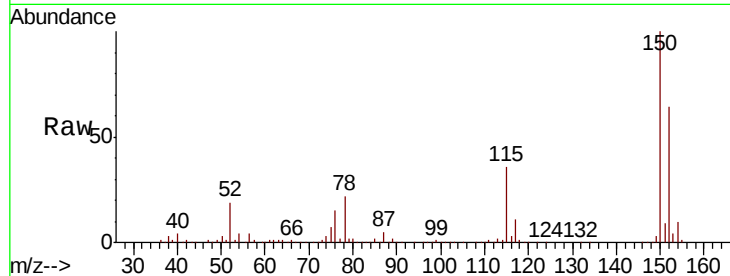


#72

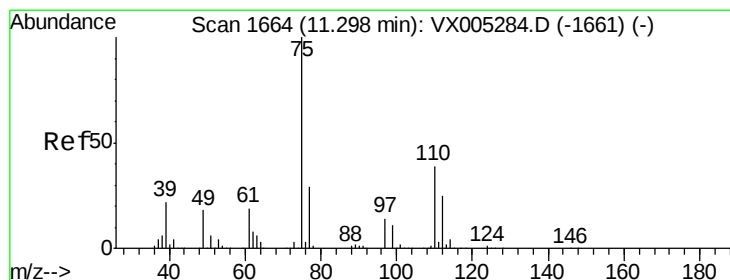
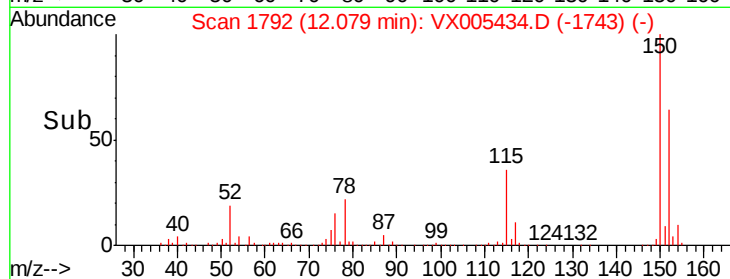
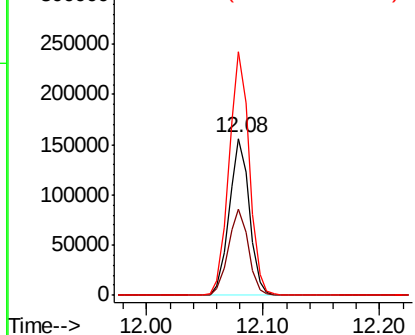
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX005434.D
Acq: 18 Oct 2018 17:03

Instrument :
MSVOA_X
ClientSampleId :
CB-1018-S-TCLP-GRID-45

Tot Ion:152 Resp: 187180
Ion Ratio Lower Upper
152 100
115 55.2 39.0 117.0
150 156.8 0.0 351.0



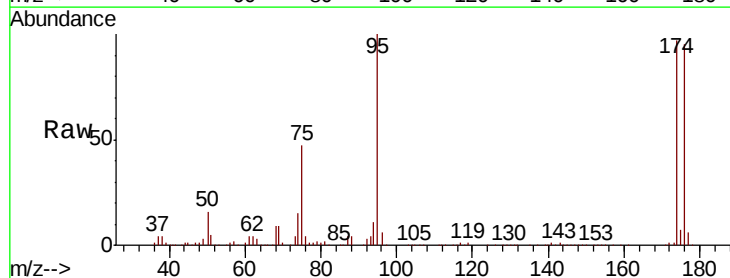
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



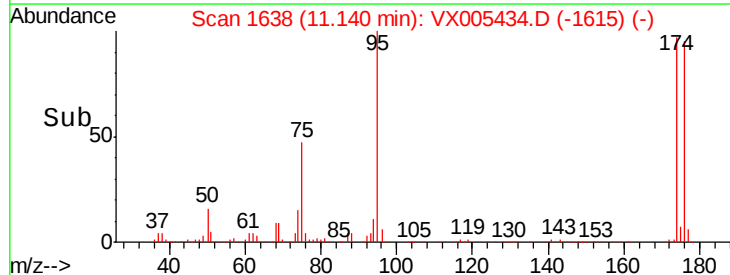
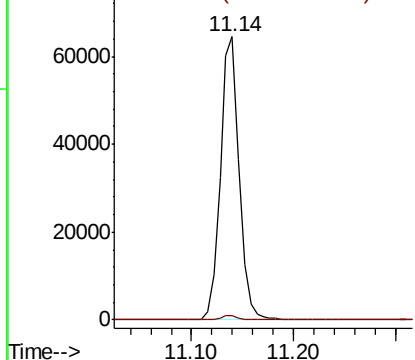
#76

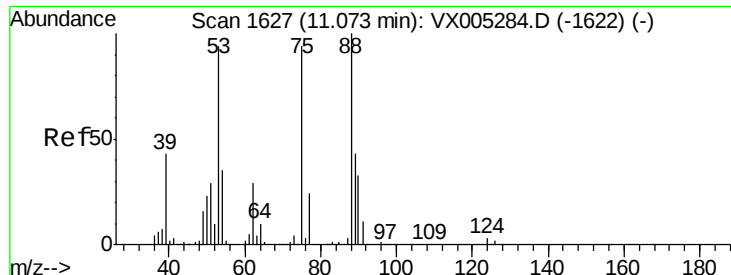
1,2,3-Trichloropropane
Concen: 22.777 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.16 min
Lab File: VX005434.D
Acq: 18 Oct 2018 17:03

Tgt Ion: 75 Resp: 82697
Ion Ratio Lower Upper
75 100
77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 69.207 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005434.D

Acq: 18 Oct 2018 17:03

Instrument :

MSVOA_X

ClientSampleId :

CB-1018-S-TCLP-GRID-45

Tot Ion: 75 Resp: 82697

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#

