

Data File : VX001608.D
Acq On : 10 May 2018 18:07
Operator : JC/MD
Sample : J2738-05 5X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
CB-TCLP-VAR5-0518

Quant Time: May 11 06:58:13 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X050518W.M
Quant Title : SW846 8260
QLast Update : Sun May 06 07:59:25 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	232983	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	313548	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	268455	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	136652	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.08	65	196383	58.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.28%	
35) Dibromofluoromethane	5.51	113	153292	54.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.92%	
50) Toluene-d8	8.72	98	534255	52.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.96%	
62) 4-Bromofluorobenzene	11.14	95	172027	44.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.04%	

Target Compounds				Qvalue		
5) Bromomethane	1.65	94	881	Below Cal		95
6) Chloroethane	1.72	64	1291	0.61 ug/l	#	72
10) Methyl Iodide	2.52	142	1285	0.32 ug/l		99
11) Tert butyl alcohol	3.08	59	826	1.17 ug/l	#	92
13) Acrolein	2.31	56	128	Below Cal	#	60
16) Acetone	2.45	43	7316	4.81 ug/l		89
18) Methyl Acetate	2.78	43	6923	1.73 ug/l		98
20) Methylene Chloride	2.86	84	54465	18.09 ug/l		97
25) 2-Butanone	4.73	43	1354	0.62 ug/l	#	81
29) Tetrahydrofuran	5.19	42	700	0.50 ug/l	#	79
30) Chloroform	5.23	83	1493	0.29 ug/l		98
31) Cyclohexane	5.67	56	4173	0.97 ug/l	#	21
32) 1,1,1-Trichloroethane	5.51	97	3455	0.76 ug/l	#	49
36) 1,1-Dichloropropene	5.67	75	14172	3.55 ug/l	#	50
38) Carbon Tetrachloride	5.67	117	20442	4.81 ug/l	#	18
44) Trichloroethene	7.22	130	56668	15.91 ug/l		100
54) cis-1,3-Dichloropropene	9.06	75	21	2.27 ug/l	#	1
67) Ethyl Benzene	10.26	91	11766	0.91 ug/l		97
68) m/p-Xylenes	10.36	106	22161	4.35 ug/l		98
69) o-Xylene	10.71	106	10872	2.19 ug/l		99
76) 1,2,3-Trichloropropane	11.14	75	87213	31.47 ug/l	#	38
81) trans-1,4-Dichloro-2-buten	11.14	75	87213	96.02 ug/l	#	7
84) 1,2,4-Trimethylbenzene	11.81	105	1702	0.21 ug/l		93
95) Naphthalene	13.84	128	255302	25.22 ug/l		100

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

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CB-TCLP-VAR5-0518

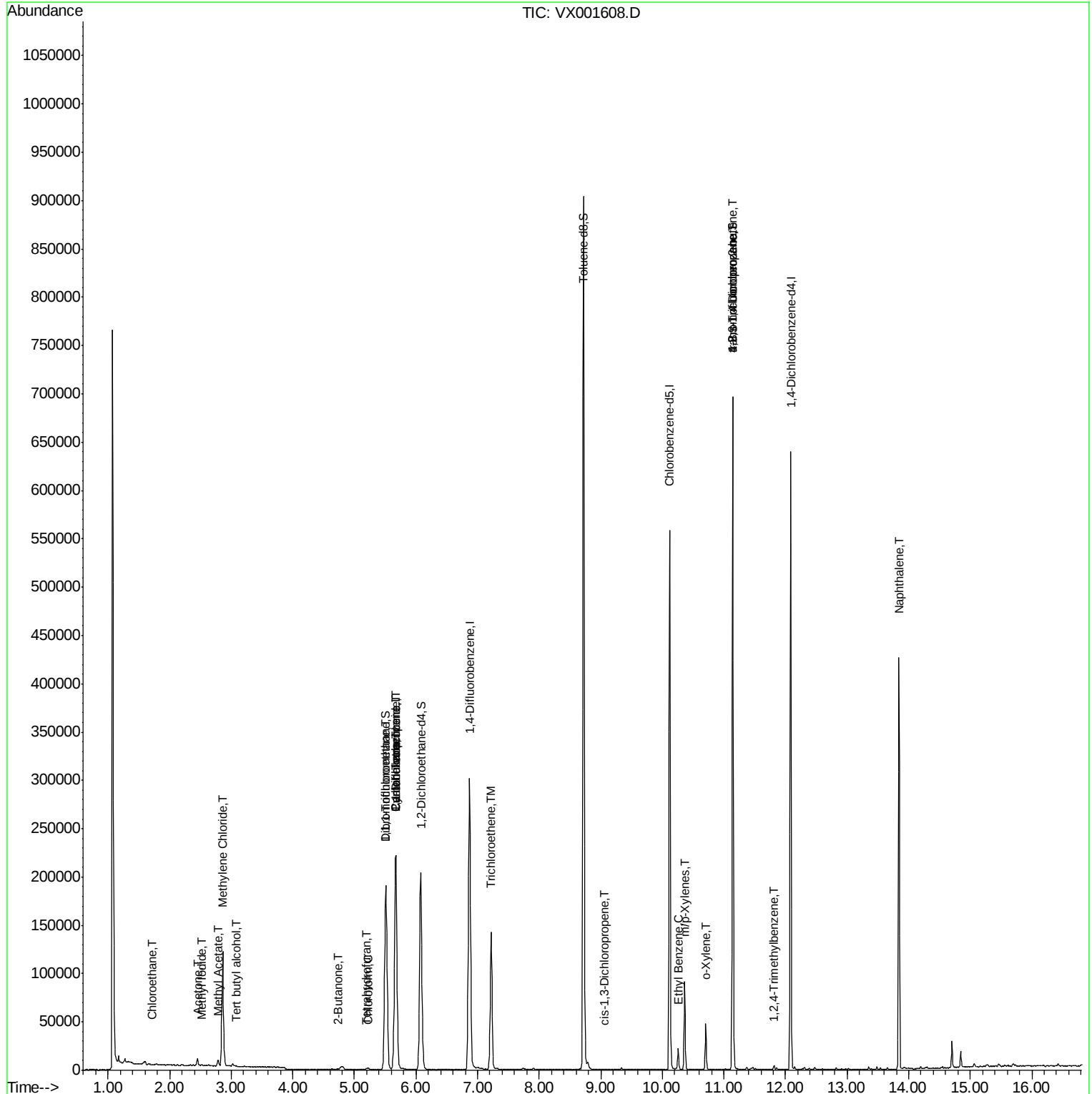
Quant Time: May 11 06:58:13 2018

Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X050518W.M

Quant Title : SW846 8260

QLast Update : Sun May 06 07:59:25 2018

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX001608.D

Acq: 10 May 2018 18:07

Instrument :

MSVOA_X

ClientSampleId :

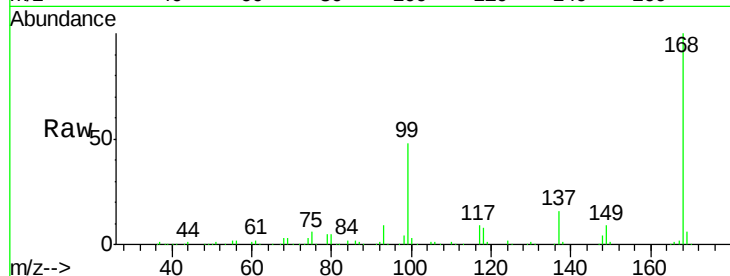
CB-TCLP-VAR5-0518

Tgt Ion:168 Resp: 232983

Ion Ratio Lower Upper

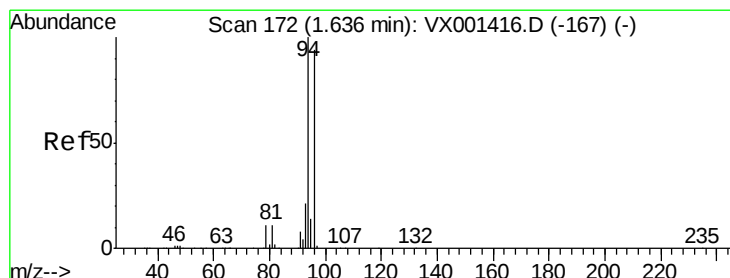
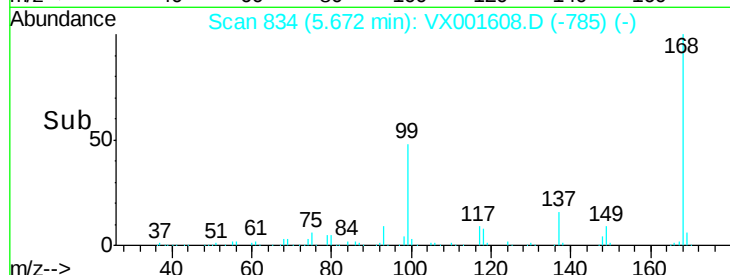
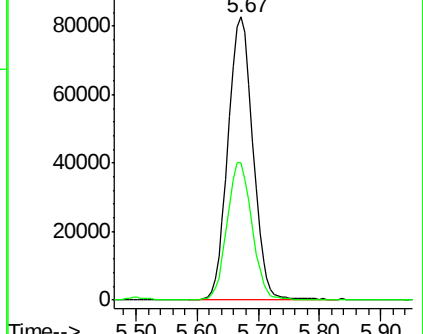
168 100

99 48.4 36.6 54.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX001608.D

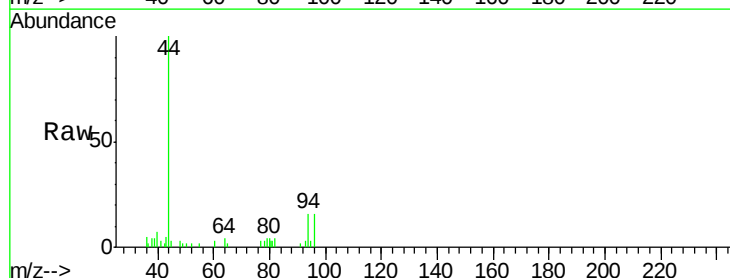
Acq: 10 May 2018 18:07

Tgt Ion: 94 Resp: 881

Ion Ratio Lower Upper

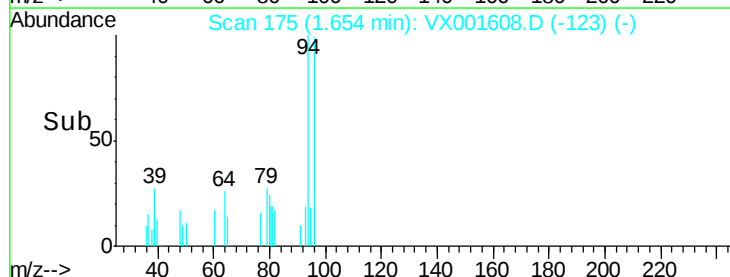
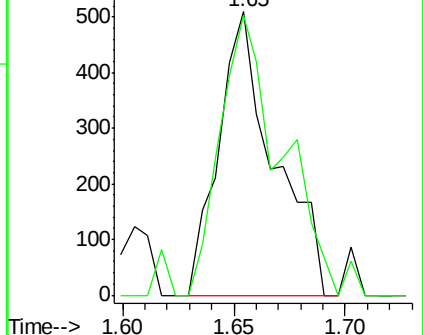
94 100

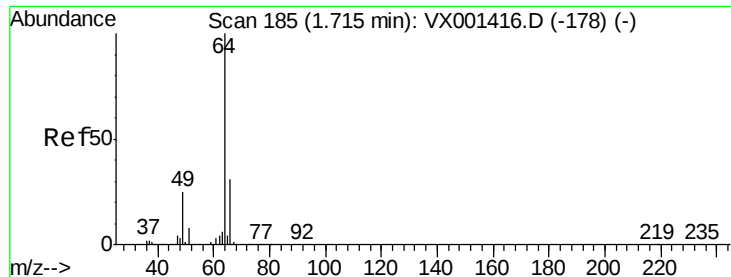
96 98.8 75.0 112.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.61 ug/l

RT: 1.72 min Scan# 185

Delta R.T. 0.00 min

Lab File: VX001608.D

Acq: 10 May 2018 18:07

Instrument :

MSVOA_X

ClientSampleId :

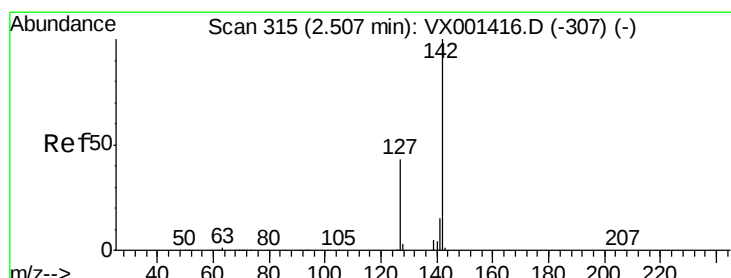
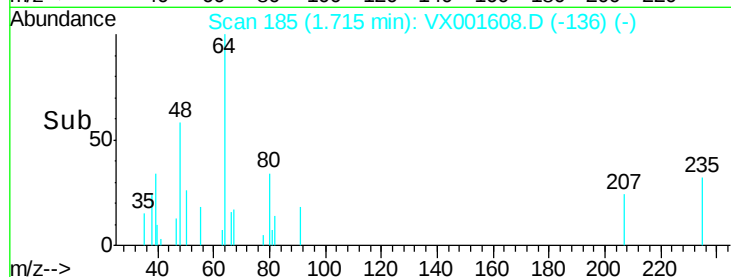
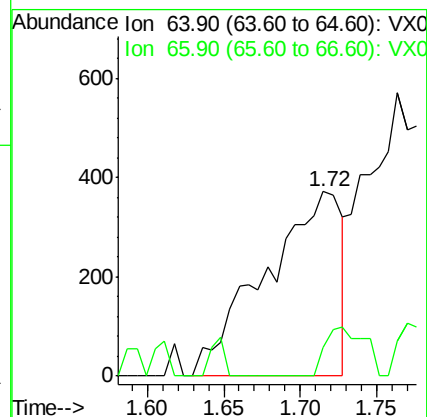
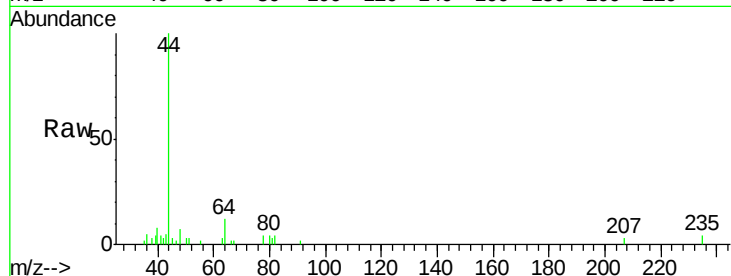
CB-TCLP-VAR5-0518

Tgt Ion: 64 Resp: 1291

Ion Ratio Lower Upper

64 100

66 15.9 25.1 37.7#



#10

Methyl Iodide

Concen: 0.32 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX001608.D

Acq: 10 May 2018 18:07

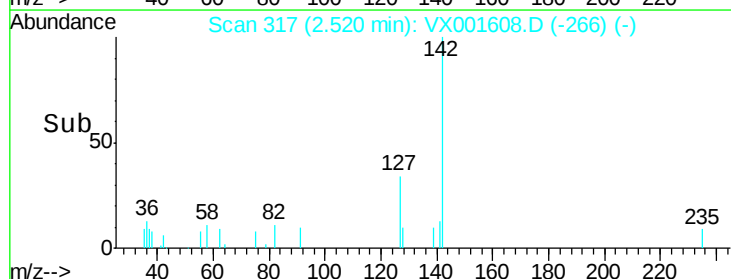
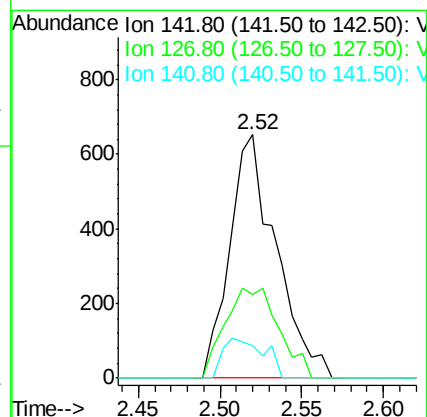
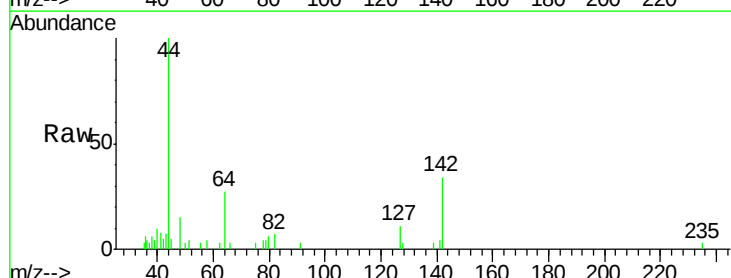
Tgt Ion: 142 Resp: 1285

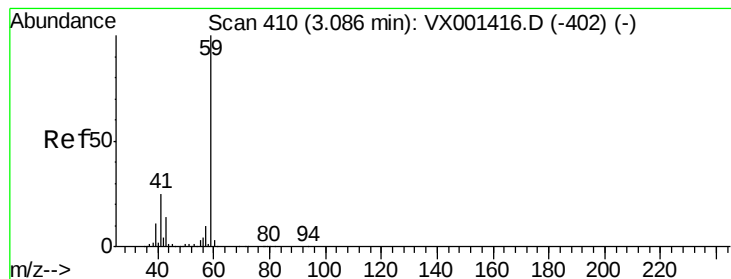
Ion Ratio Lower Upper

142 100

127 43.0 33.6 50.4

141 14.6 11.4 17.2





#11

Tert butyl alcohol

Concen: 1.17 ug/l

RT: 3.08 min Scan# 409

Delta R.T. -0.01 min

Lab File: VX001608.D

Acq: 10 May 2018 18:07

Instrument :

MSVOA_X

ClientSampleId :

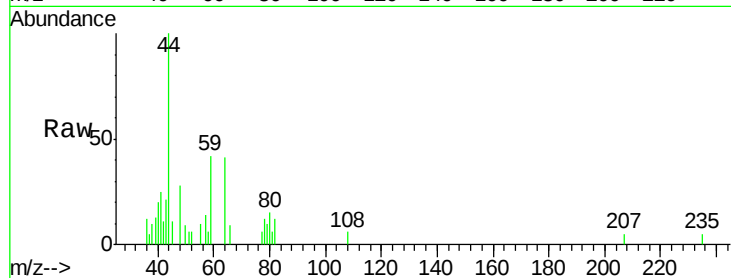
CB-TCLP-VAR5-0518

Tgt Ion: 59 Resp: 826

Ion Ratio Lower Upper

59 100

57 13.3 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

800

600

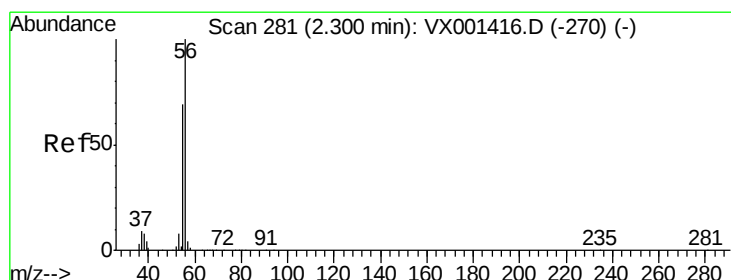
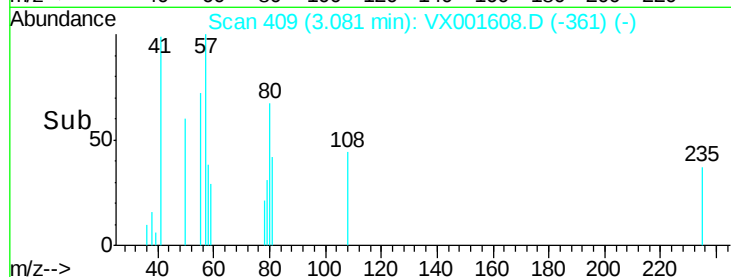
400

200

0

3.05 3.10 3.15

Time-->



#13

Acrolein

Concen: Below Cal

RT: 2.31 min Scan# 283

Delta R.T. 0.01 min

Lab File: VX001608.D

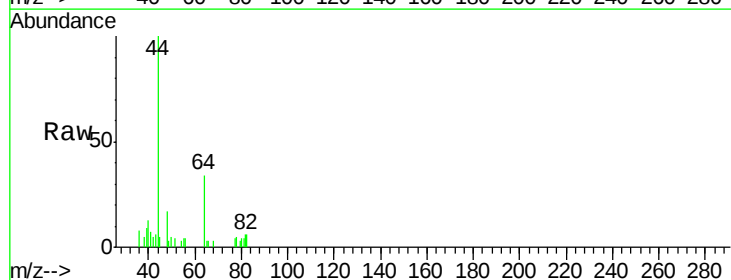
Acq: 10 May 2018 18:07

Tgt Ion: 56 Resp: 128

Ion Ratio Lower Upper

56 100

55 35.9 54.5 81.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

150

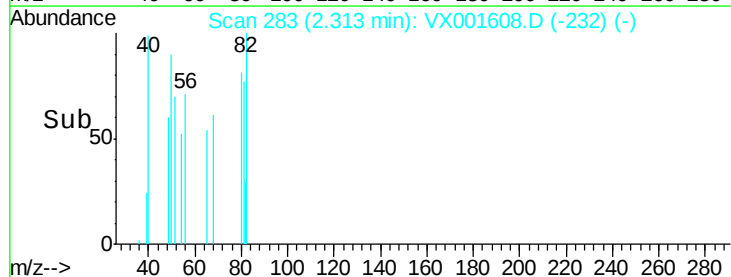
100

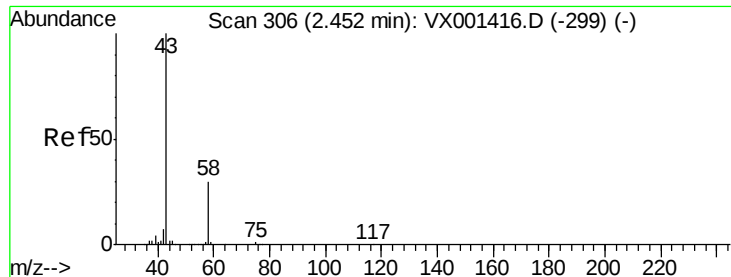
50

0

2.26 2.28 2.30 2.32

Time-->

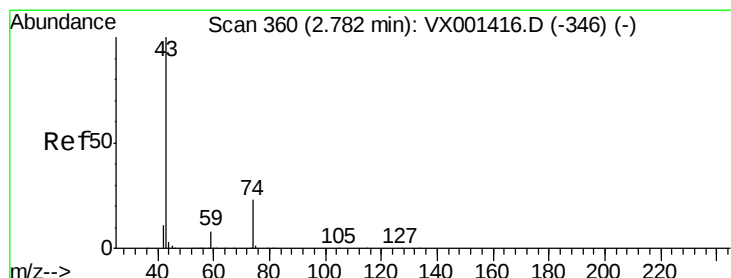
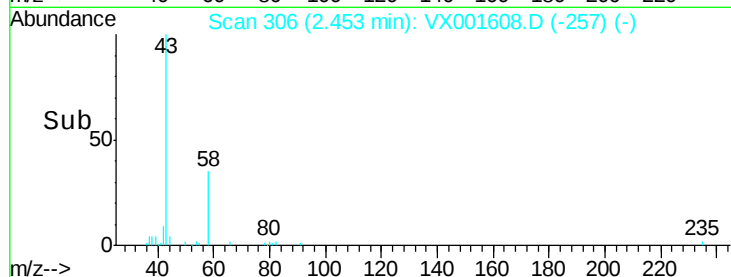
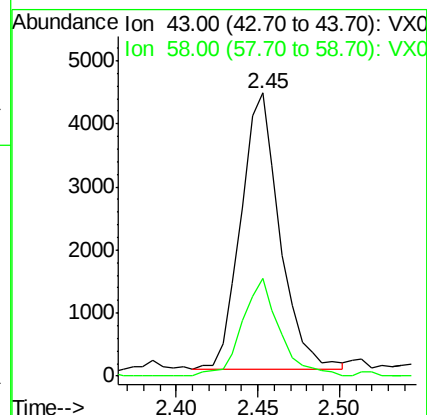
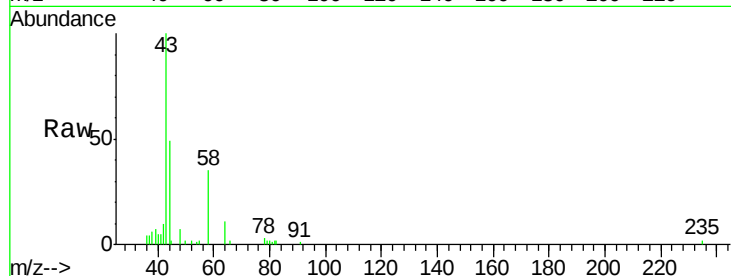




#16
Acetone
Concen: 4.81 ug/l
RT: 2.45 min Scan# 306
Delta R.T. 0.00 min
Lab File: VX001608.D
Acq: 10 May 2018 18:07

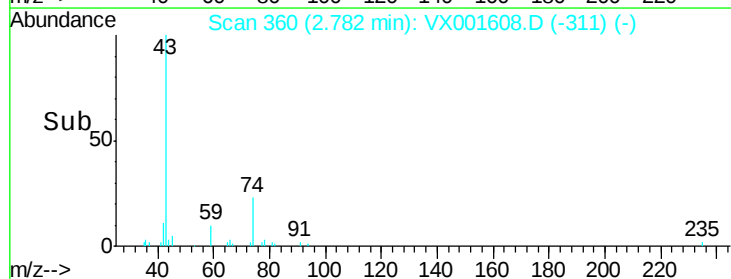
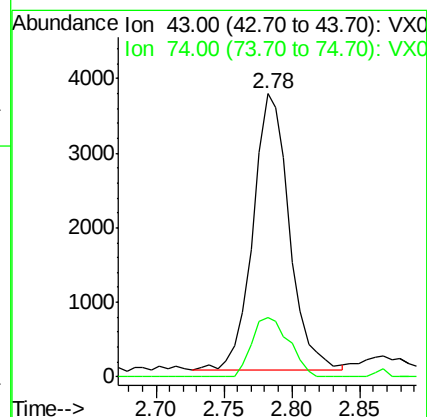
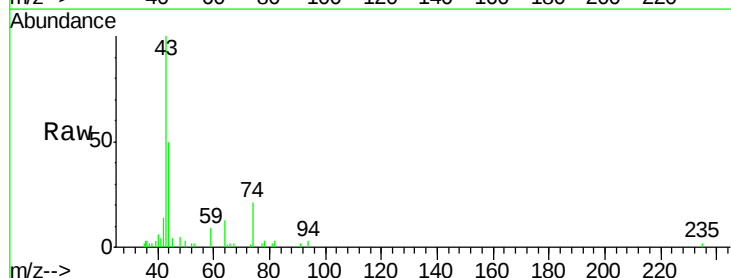
Instrument :
MSVOA_X
ClientSampleId :
CB-TCLP-VAR5-0518

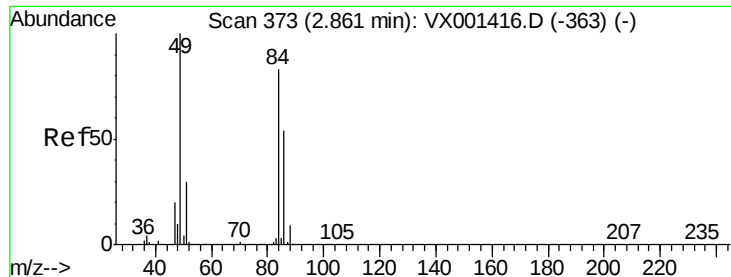
Tgt Ion: 43 Resp: 7316
Ion Ratio Lower Upper
43 100
58 35.5 23.8 35.8



#18
Methyl Acetate
Concen: 1.73 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX001608.D
Acq: 10 May 2018 18:07

Tgt Ion: 43 Resp: 6923
Ion Ratio Lower Upper
43 100
74 22.0 18.6 27.8

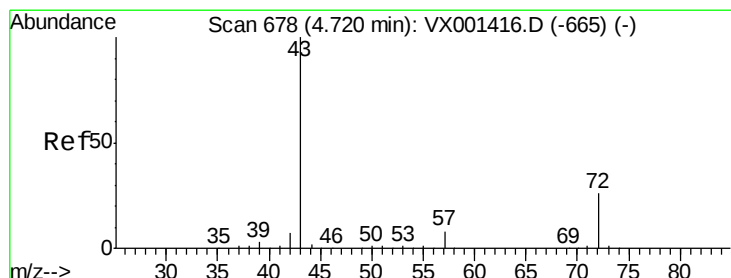
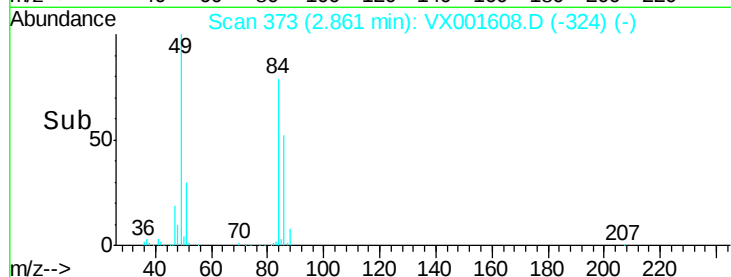
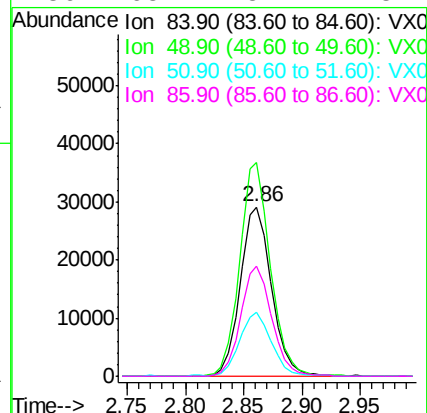
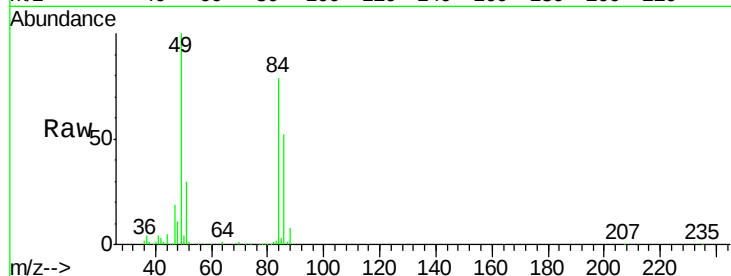




#20
Methylene Chloride
Concen: 18.09 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX001608.D
Acq: 10 May 2018 18:07

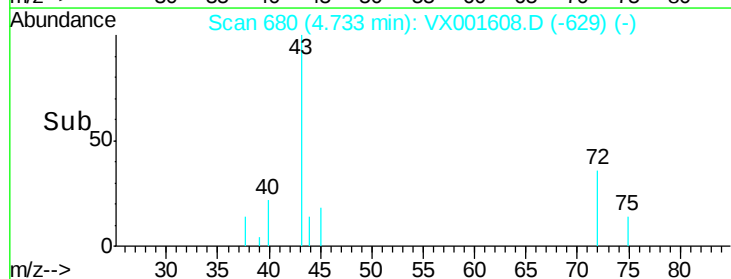
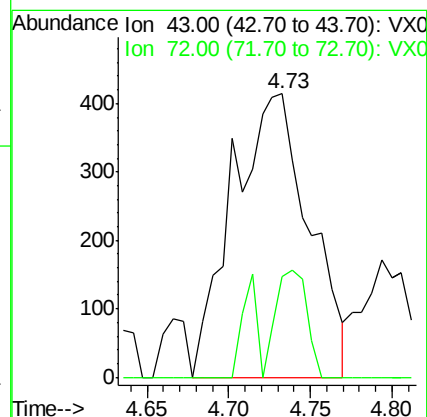
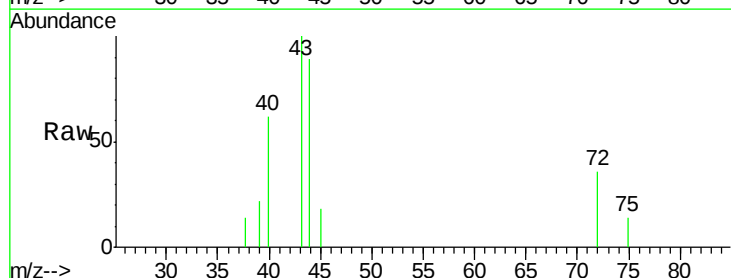
Instrument :
MSVOA_X
ClientSampleId :
CB-TCLP-VAR5-0518

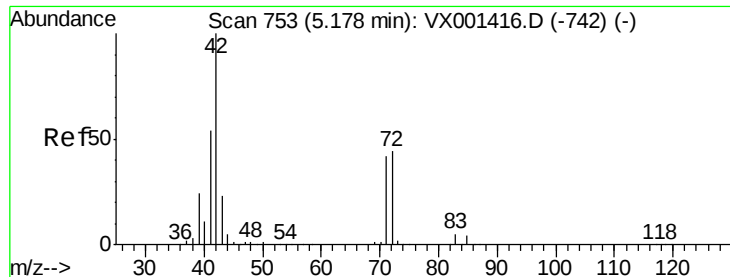
Tgt Ion:	84	Resp:	54465
Ion	Ratio	Lower	Upper
84	100		
49	126.2	96.6	144.8
51	37.5	29.0	43.4
86	65.1	52.2	78.4



#25
2-Butanone
Concen: 0.62 ug/l
RT: 4.73 min Scan# 680
Delta R.T. 0.01 min
Lab File: VX001608.D
Acq: 10 May 2018 18:07

Tgt Ion:	43	Resp:	1354
Ion	Ratio	Lower	Upper
43	100		
72	35.5	20.7	31.1#





#29

Tetrahydrofuran

Concen: 0.50 ug/l

RT: 5.19 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX001608.D

Acq: 10 May 2018 18:07

Instrument :

MSVOA_X

ClientSampleId :

CB-TCLP-VAR5-0518

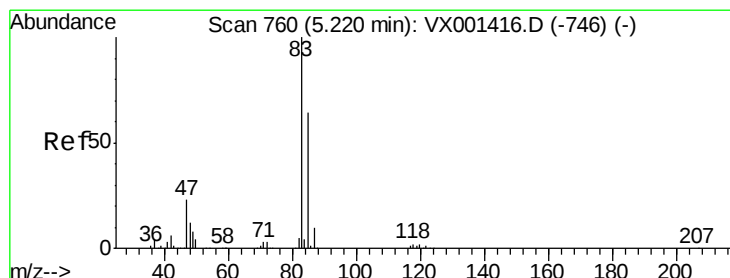
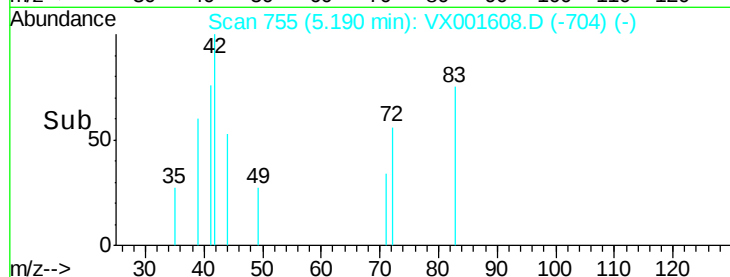
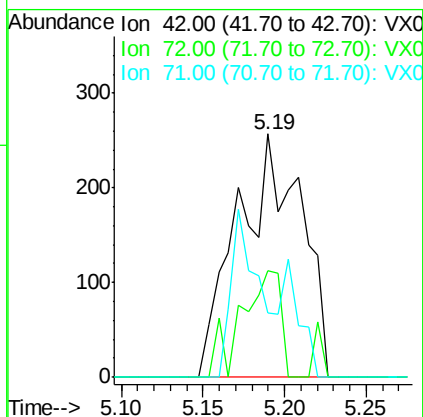
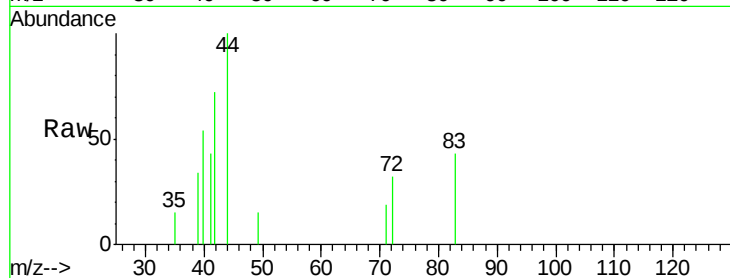
Tgt Ion: 42 Resp: 700

Ion Ratio Lower Upper

42 100

72 27.0 35.4 53.2#

71 31.6 33.0 49.4#



#30

Chloroform

Concen: 0.29 ug/l

RT: 5.23 min Scan# 762

Delta R.T. 0.01 min

Lab File: VX001608.D

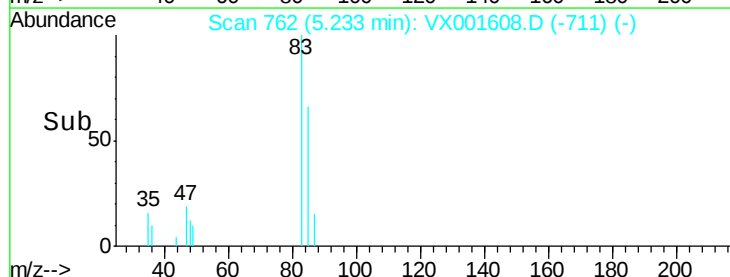
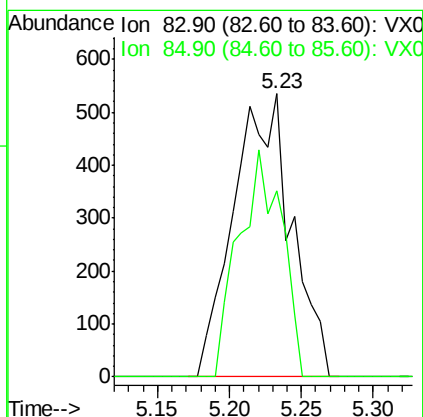
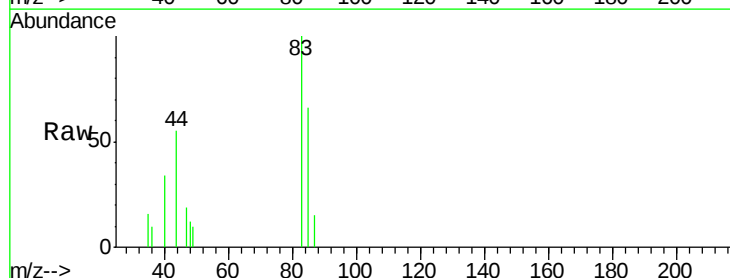
Acq: 10 May 2018 18:07

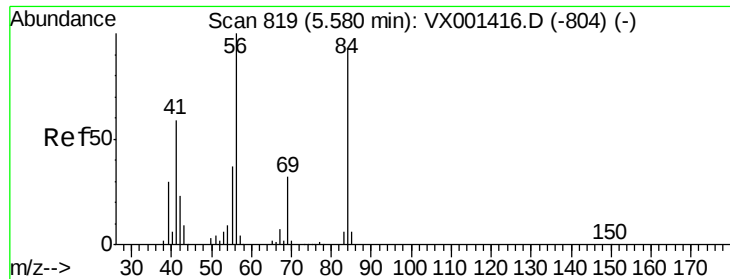
Tgt Ion: 83 Resp: 1493

Ion Ratio Lower Upper

83 100

85 65.6 51.0 76.4

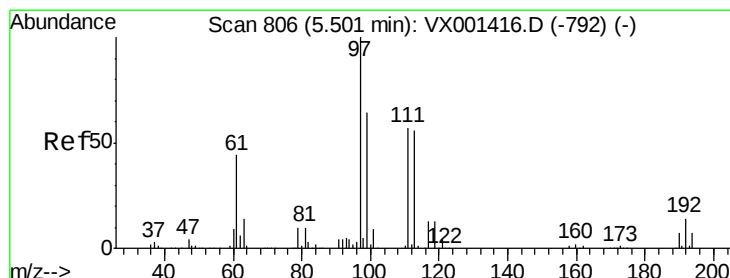
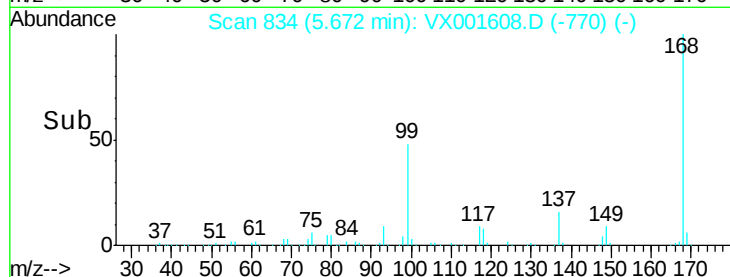
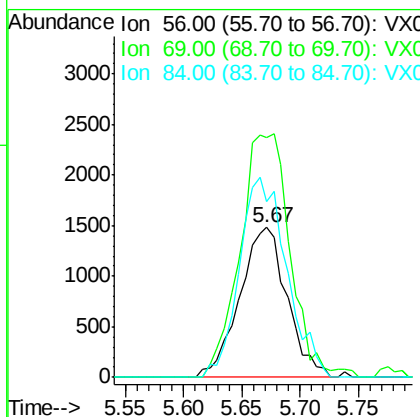
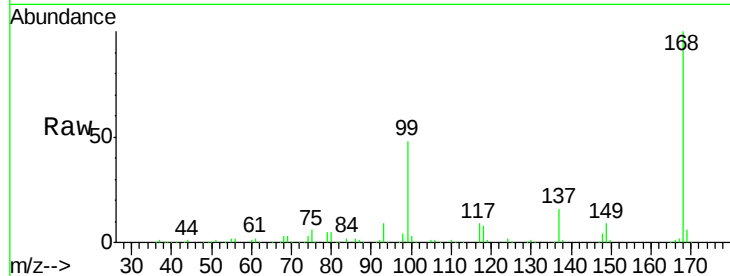




#31
Cyclohexane
Concen: 0.97 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.09 min
Lab File: VX001608.D
Acq: 10 May 2018 18:07

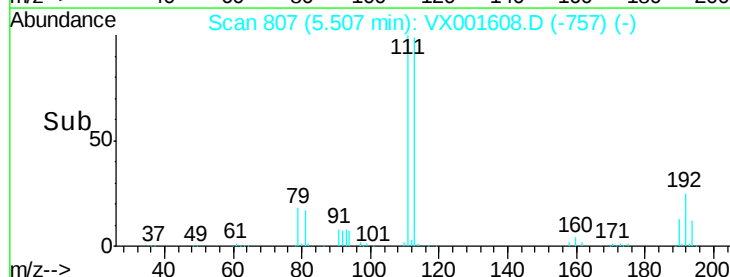
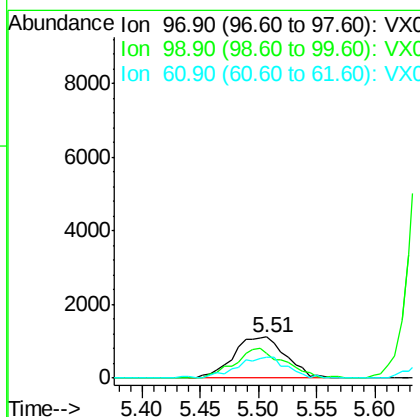
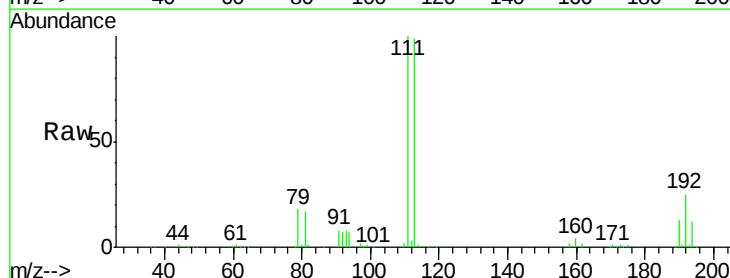
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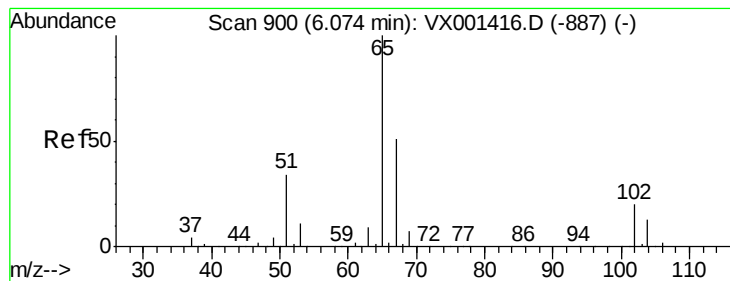
Tgt Ion: 56 Resp: 4173
Ion Ratio Lower Upper
56 100
69 160.2 25.4 38.0#
84 117.2 73.8 110.8#



#32
1,1,1-Trichloroethane
Concen: 0.76 ug/l
RT: 5.51 min Scan# 807
Delta R.T. 0.01 min
Lab File: VX001608.D
Acq: 10 May 2018 18:07

Tgt Ion: 97 Resp: 3455
Ion Ratio Lower Upper
97 100
99 0.0 51.3 76.9#
61 47.4 34.8 52.2





#33

1,2-Dichloroethane-d4

Concen: 58.64 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.01 min

Lab File: VX001608.D

Acq: 10 May 2018 18:07

Instrument :

MSVOA_X

ClientSampleId :

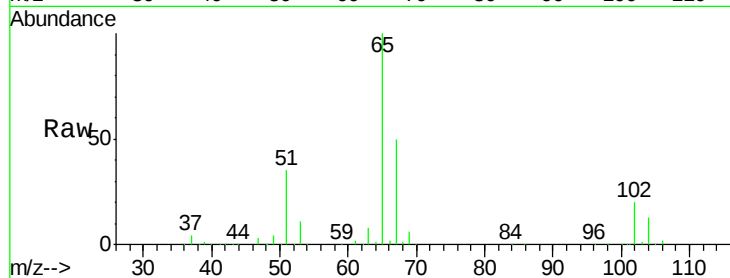
CB-TCLP-VAR5-0518

Tgt Ion: 65 Resp: 196383

Ion Ratio Lower Upper

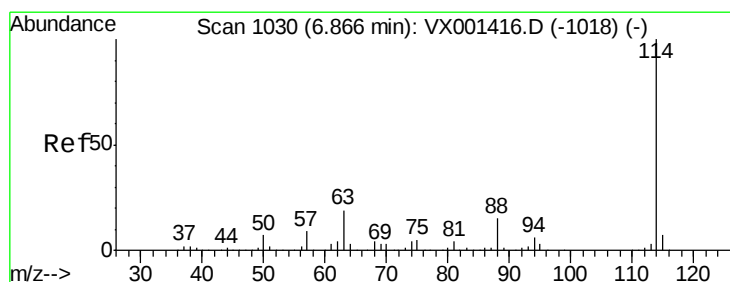
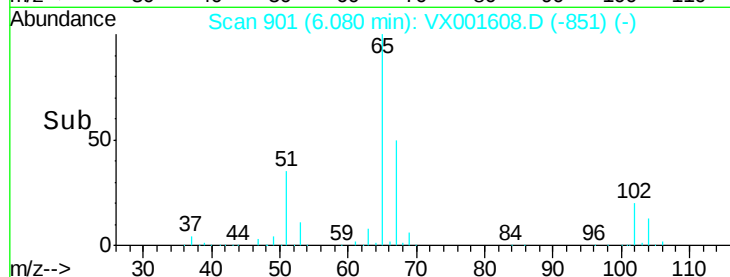
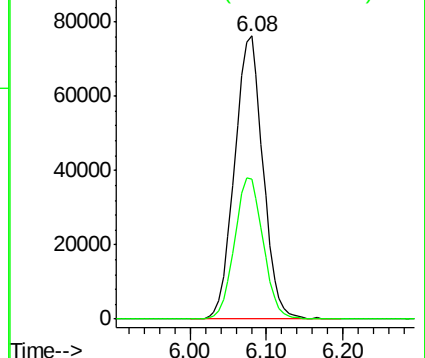
65 100

67 50.4 0.0 101.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX001608.D

Acq: 10 May 2018 18:07

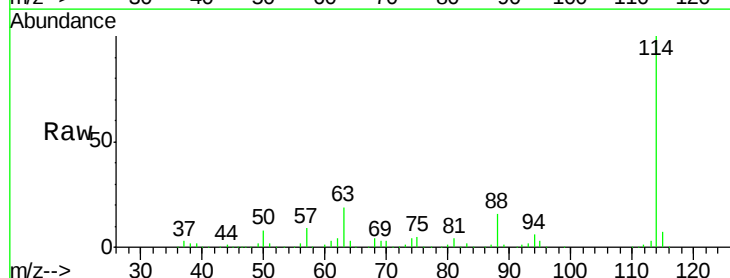
Tgt Ion: 114 Resp: 313548

Ion Ratio Lower Upper

114 100

63 19.5 0.0 38.6

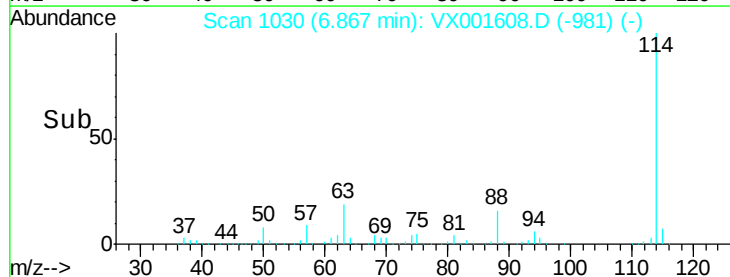
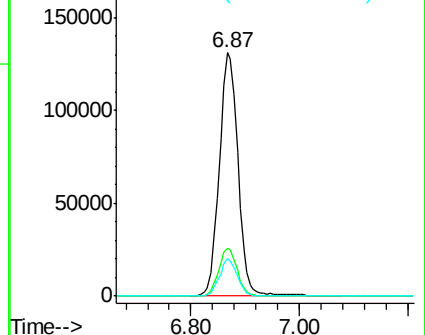
88 15.6 0.0 30.8

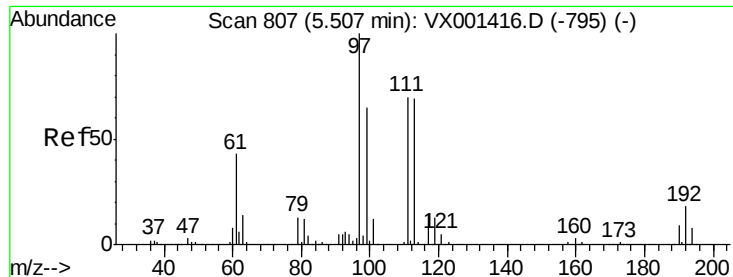


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 54.96 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX001608.D

Acq: 10 May 2018 18:07

Instrument :

MSVOA_X

ClientSampleId :

CB-TCLP-VAR5-0518

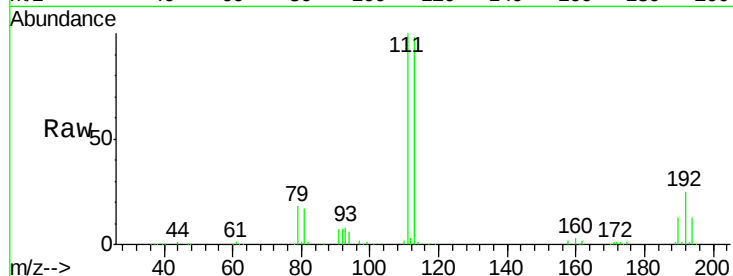
Tgt Ion:113 Resp: 153292

Ion Ratio Lower Upper

113 100

111 102.3 82.2 123.2

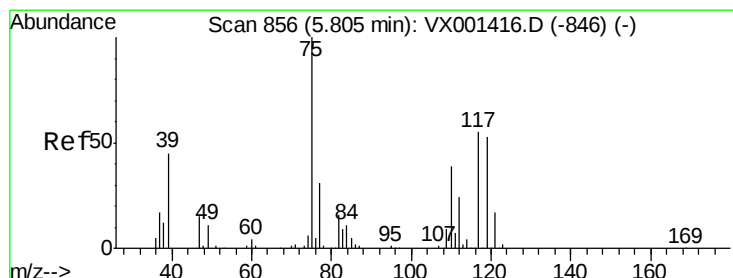
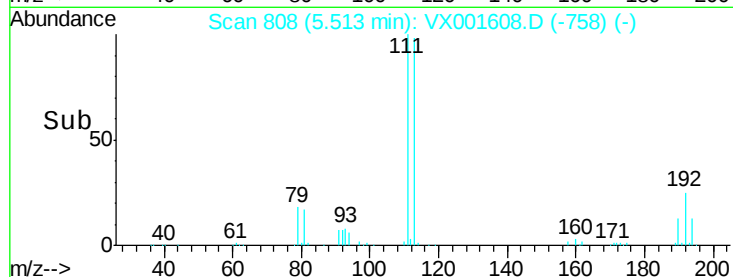
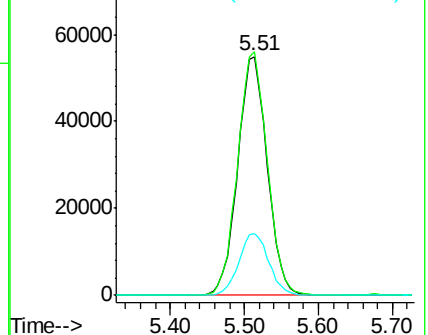
192 26.2 21.4 32.0



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: 3.55 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX001608.D

Acq: 10 May 2018 18:07

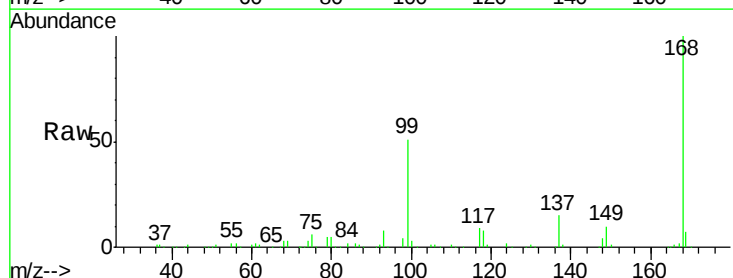
Tgt Ion: 75 Resp: 14172

Ion Ratio Lower Upper

75 100

110 10.6 18.9 56.7#

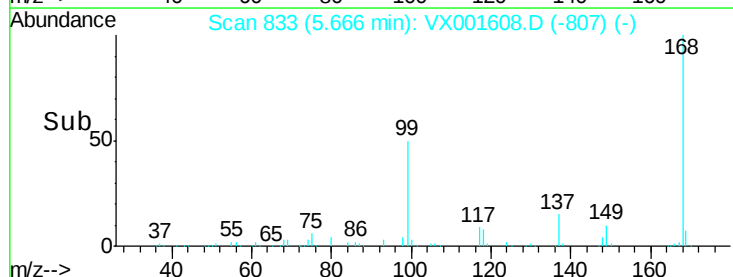
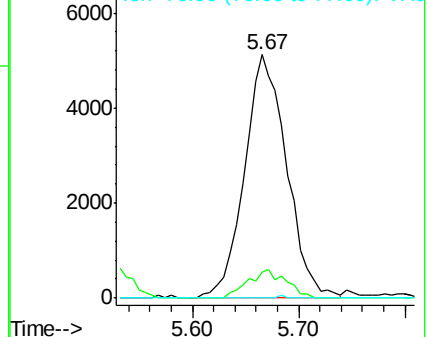
77 0.1 24.9 37.3#

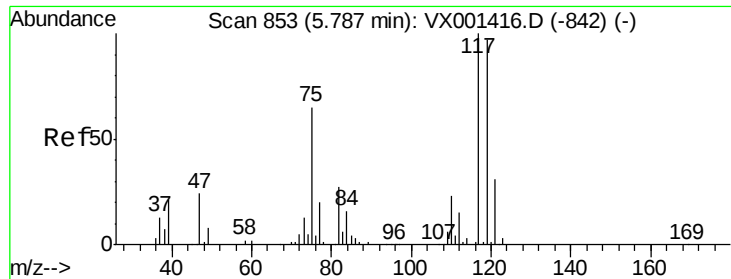


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.81 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX001608.D

Acq: 10 May 2018 18:07

Instrument :

MSVOA_X

ClientSampleId :

CB-TCLP-VAR5-0518

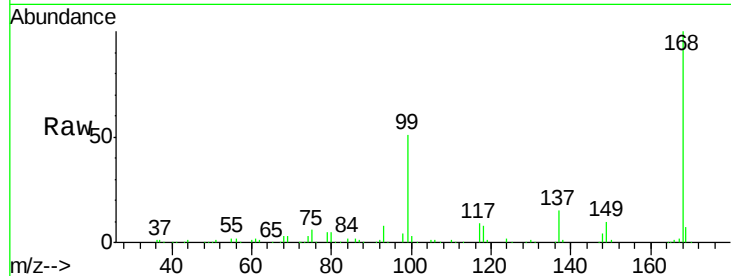
Tgt Ion:117 Resp: 20442

Ion Ratio Lower Upper

117 100

119 7.4 77.0 115.6#

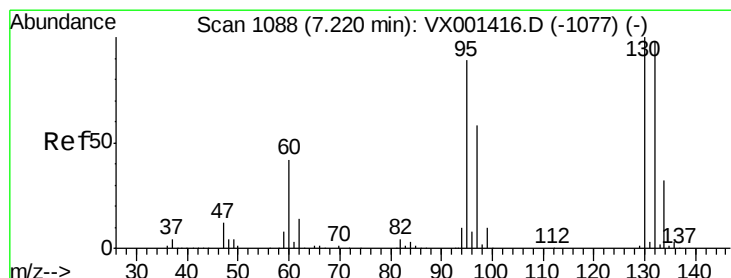
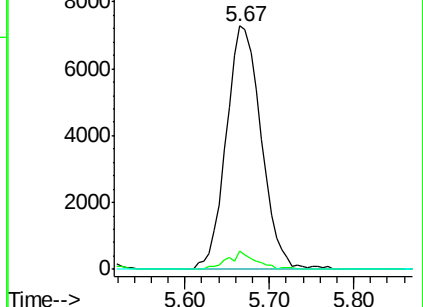
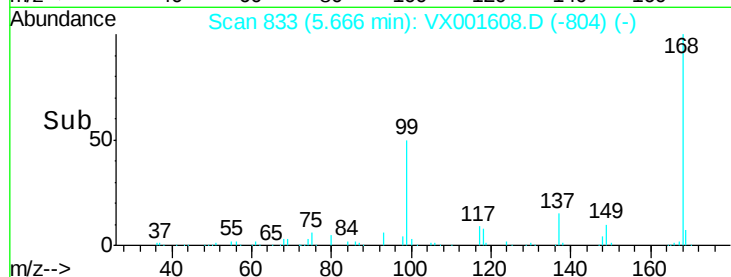
121 0.0 25.1 37.7#



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



#44

Trichloroethene

Concen: 15.91 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.00 min

Lab File: VX001608.D

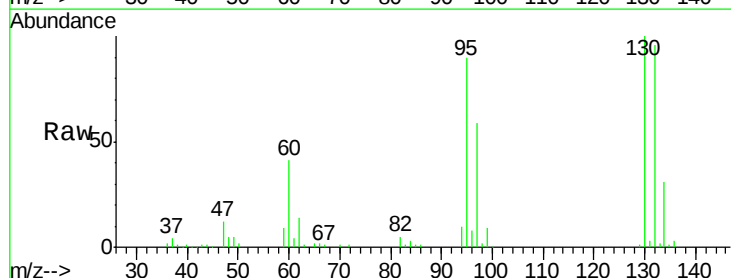
Acq: 10 May 2018 18:07

Tgt Ion:130 Resp: 56668

Ion Ratio Lower Upper

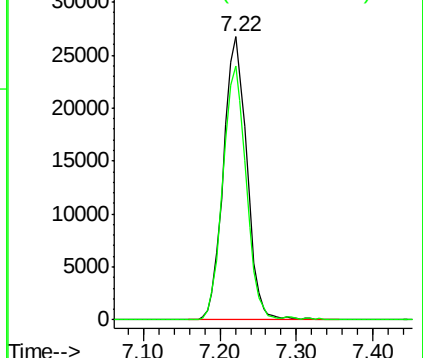
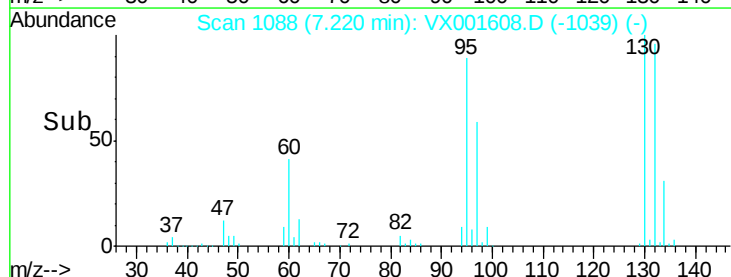
130 100

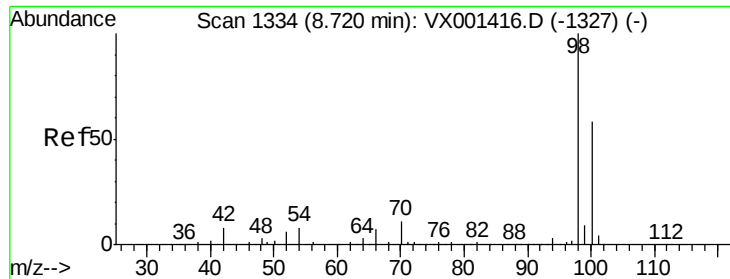
95 89.6 0.0 178.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 52.48 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001608.D

Acq: 10 May 2018 18:07

Instrument :

MSVOA_X

ClientSampleId :

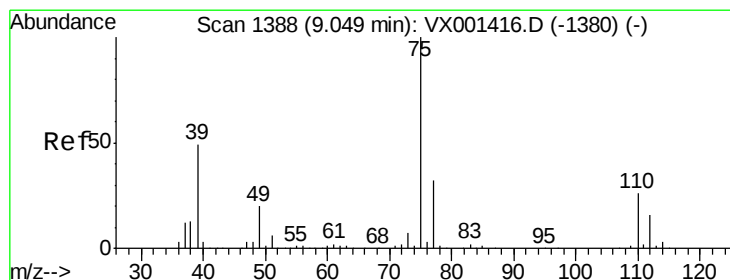
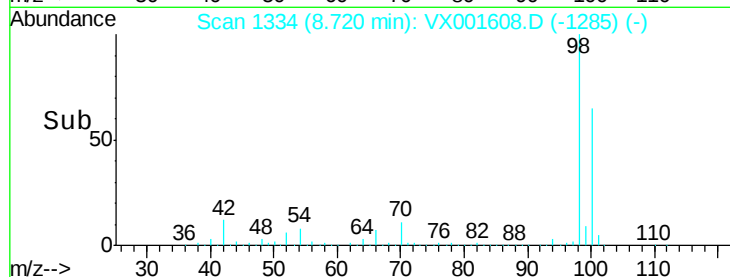
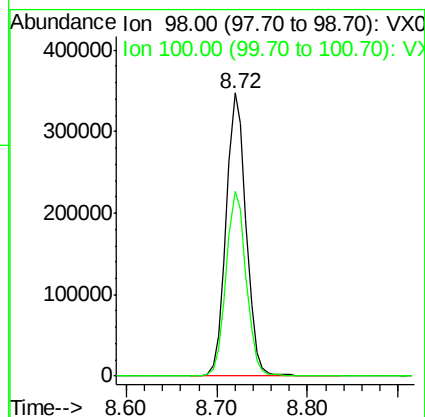
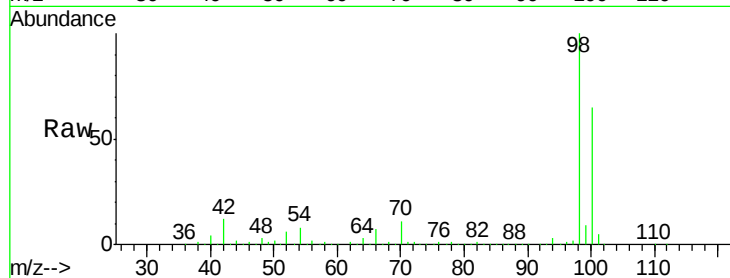
CB-TCLP-VAR5-0518

Tgt Ion: 98 Resp: 534255

Ion Ratio Lower Upper

98 100

100 65.6 54.0 81.0



#54

cis-1,3-Dichloropropene

Concen: 2.27 ug/l

RT: 9.06 min Scan# 1389

Delta R.T. 0.01 min

Lab File: VX001608.D

Acq: 10 May 2018 18:07

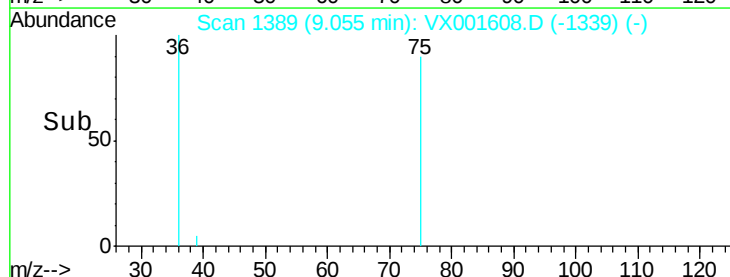
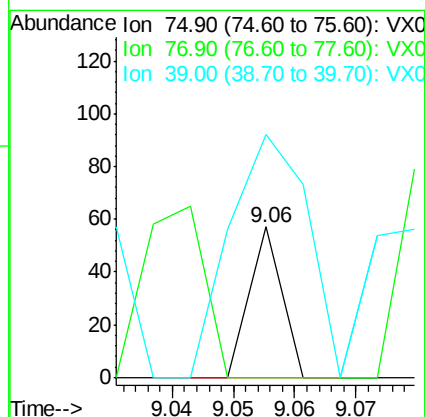
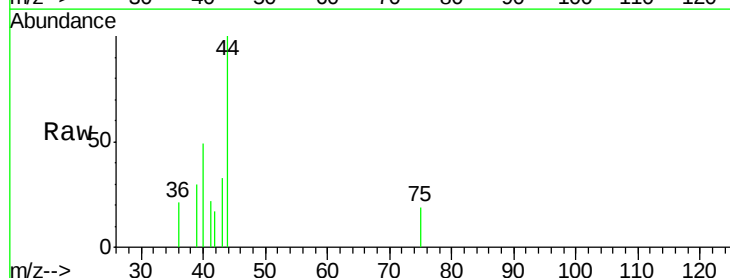
Tgt Ion: 75 Resp: 21

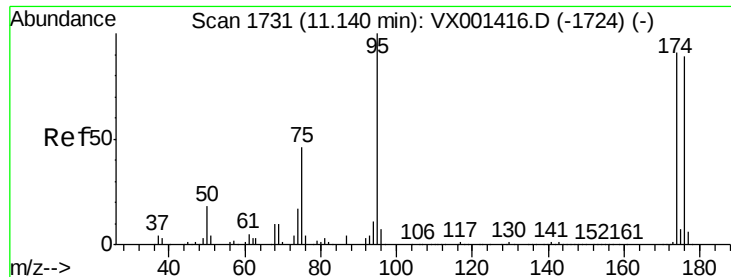
Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

39 161.4 38.9 58.3#

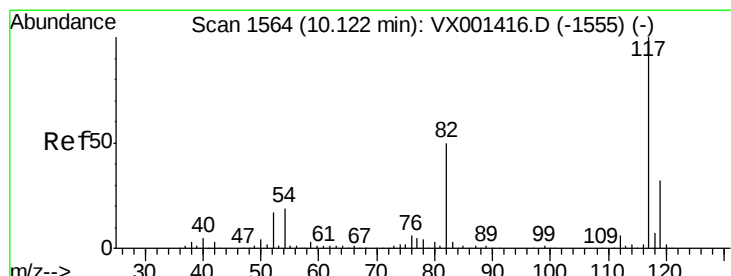
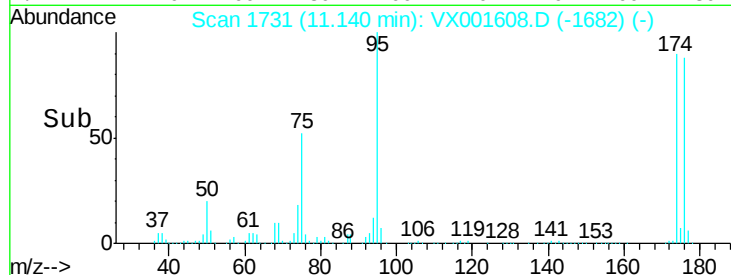
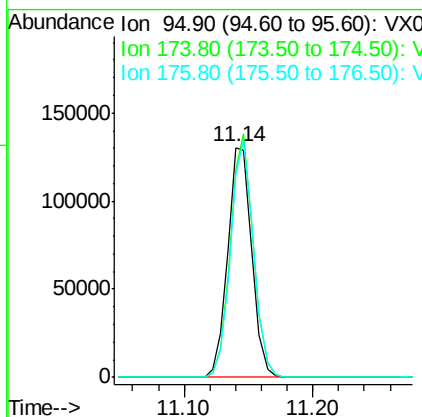
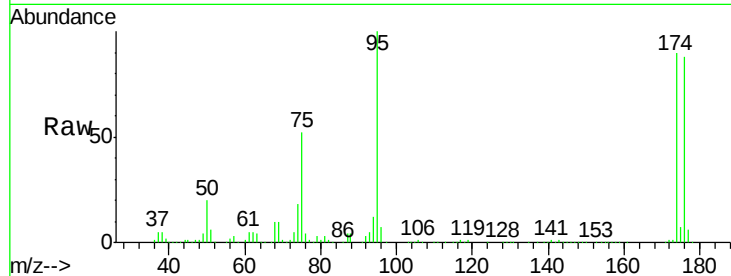




#62
4-Bromofluorobenzene
Concen: 44.02 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX001608.D
Acq: 10 May 2018 18:07

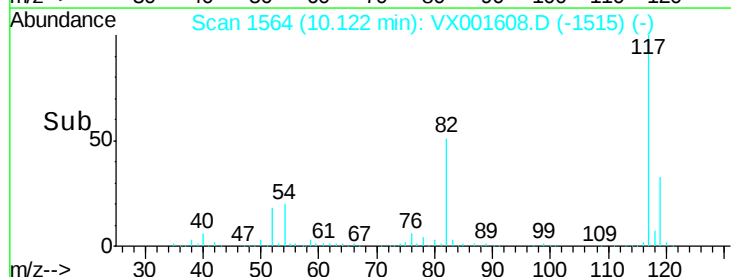
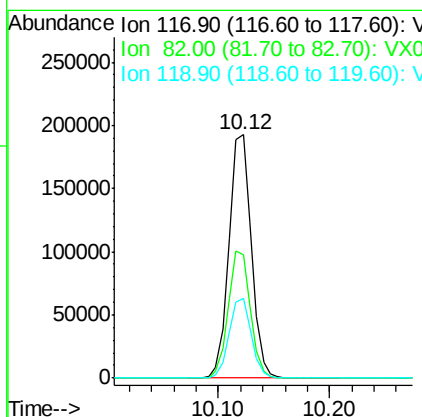
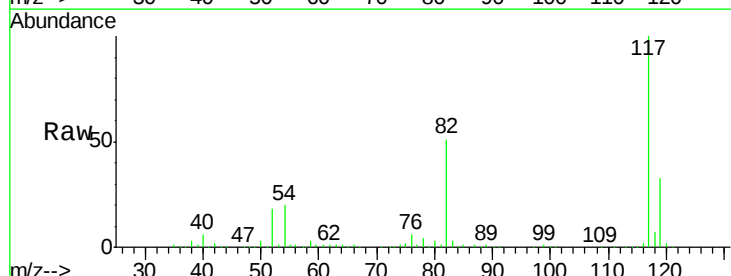
Instrument :
MSVOA_X
ClientSampleId :
CB-TCLP-VAR5-0518

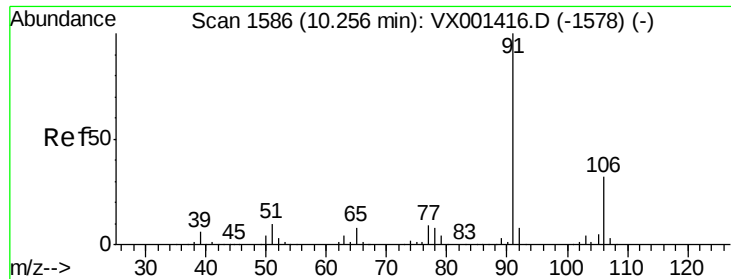
Tgt Ion: 95 Resp: 172027
Ion Ratio Lower Upper
95 100
174 100.0 0.0 202.0
176 97.7 0.0 197.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VX001608.D
Acq: 10 May 2018 18:07

Tgt Ion: 117 Resp: 268455
Ion Ratio Lower Upper
117 100
82 50.9 40.0 60.0
119 32.7 25.8 38.8

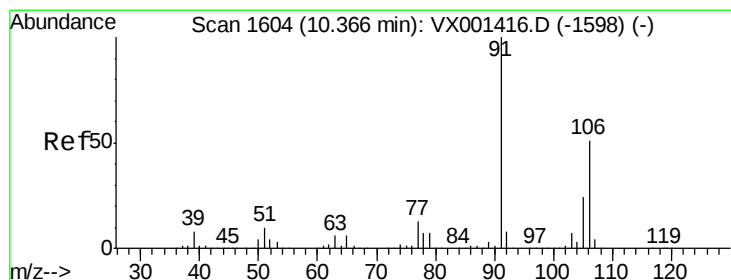
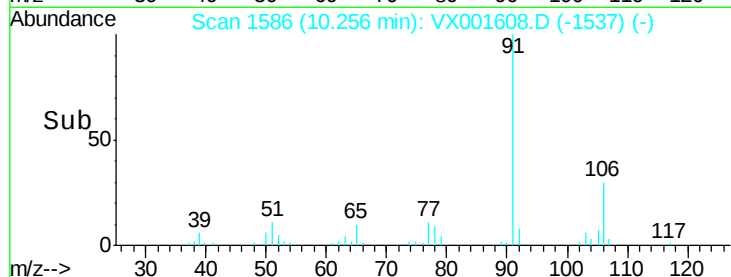
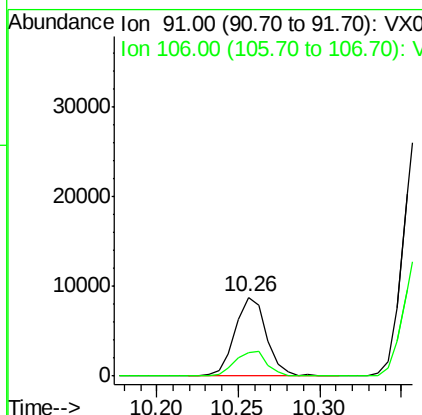
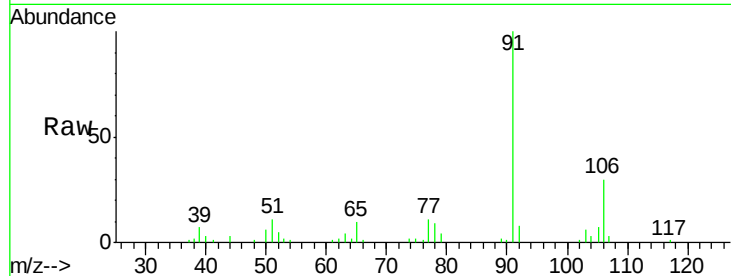




#67
Ethyl Benzene
Concen: 0.91 ug/l
RT: 10.26 min Scan# 1586
Delta R.T. 0.00 min
Lab File: VX001608.D
Acq: 10 May 2018 18:07

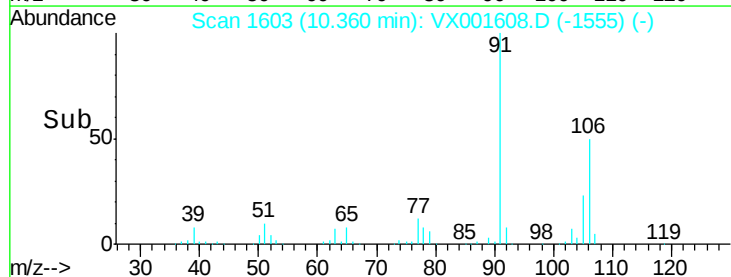
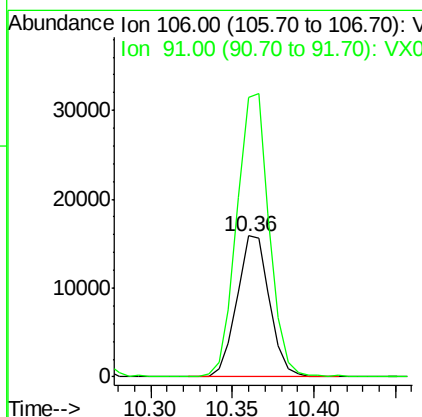
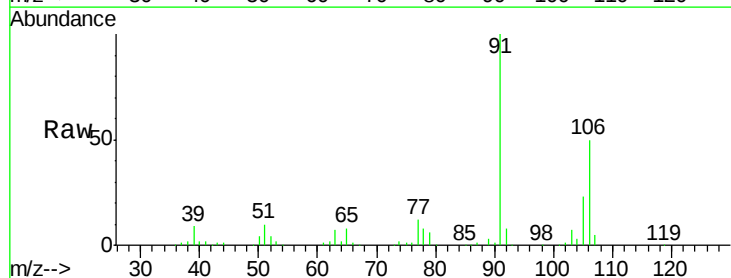
Instrument :
MSVOA_X
ClientSampleId :
CB-TCLP-VAR5-0518

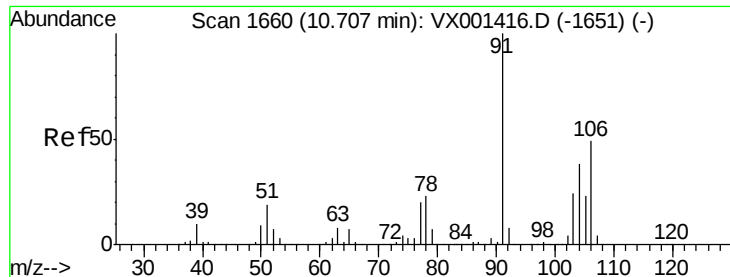
Tgt Ion: 91 Resp: 11766
Ion Ratio Lower Upper
91 100
106 30.0 25.5 38.3



#68
m/p-Xylenes
Concen: 4.35 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. -0.01 min
Lab File: VX001608.D
Acq: 10 May 2018 18:07

Tgt Ion: 106 Resp: 22161
Ion Ratio Lower Upper
106 100
91 200.4 157.5 236.3

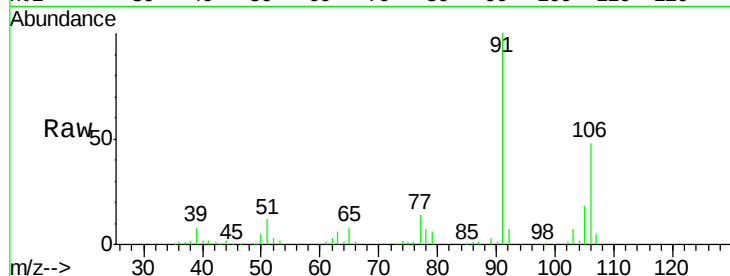




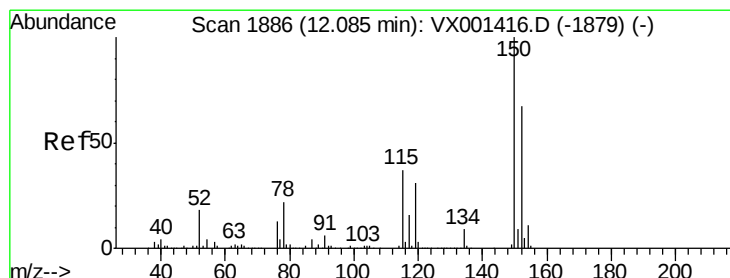
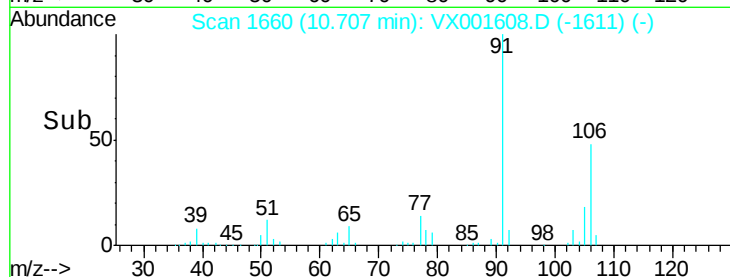
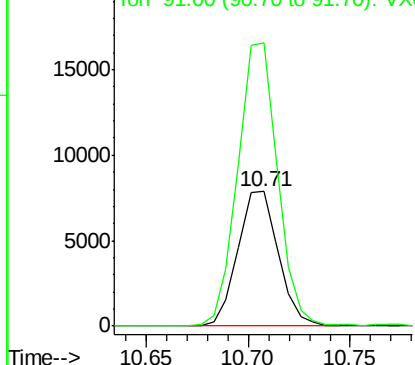
#69
o-Xylene
Concen: 2.19 ug/l
RT: 10.71 min Scan# 1660
Delta R.T. 0.00 min
Lab File: VX001608.D
Acq: 10 May 2018 18:07

Instrument :
MSVOA_X
ClientSampleId :
CB-TCLP-VAR5-0518

Tgt Ion:106 Resp: 10872
Ion Ratio Lower Upper
106 100
91 207.8 103.1 309.1

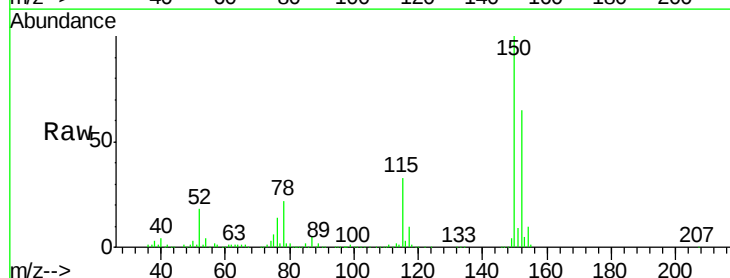


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

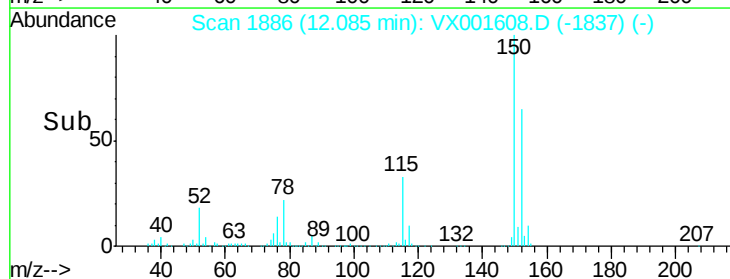
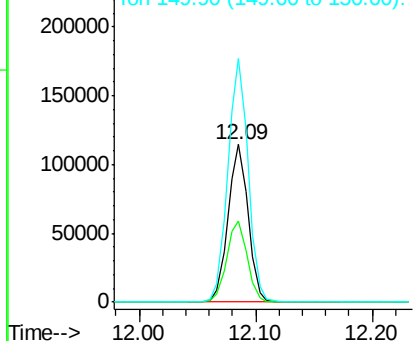


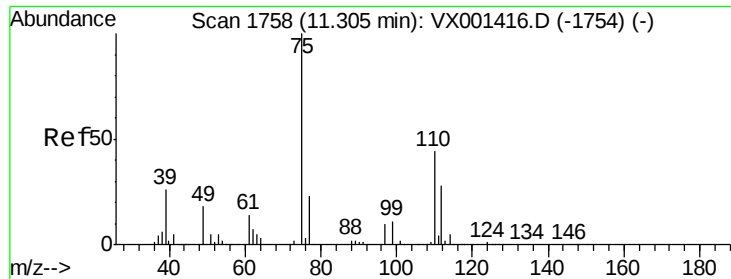
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX001608.D
Acq: 10 May 2018 18:07

Tgt Ion:152 Resp: 136652
Ion Ratio Lower Upper
152 100
115 52.6 37.7 113.1
150 155.8 0.0 349.4



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

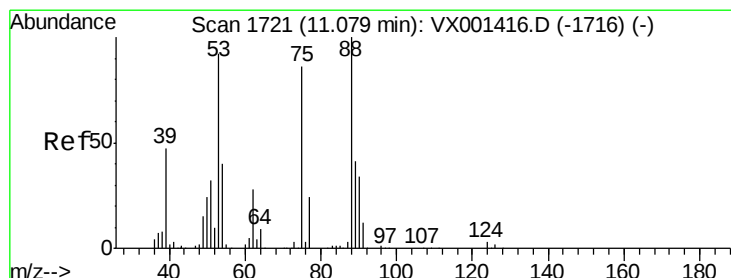
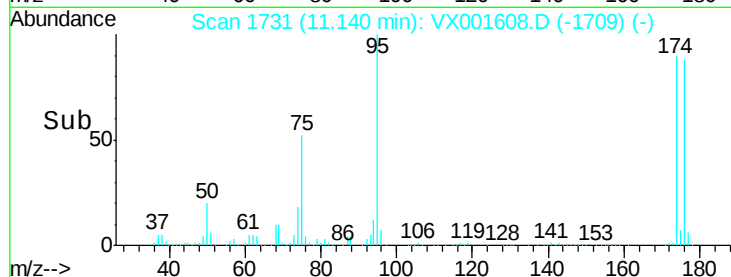
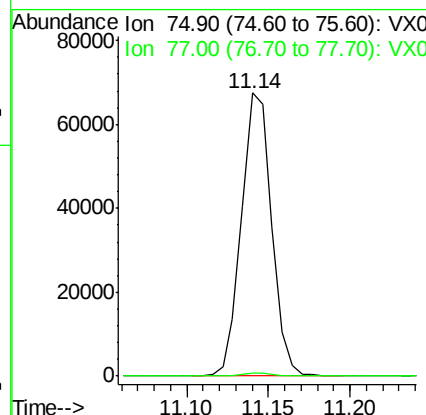
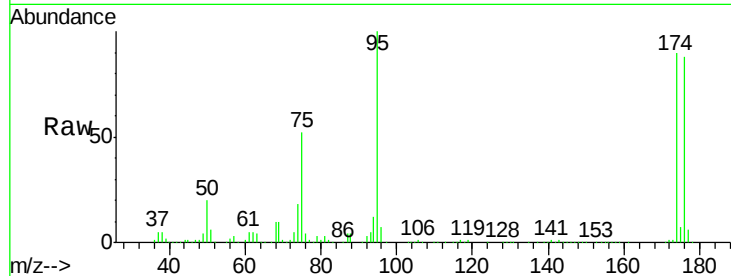




#76
 1,2,3-Trichloropropane
 Concen: 31.47 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX001608.D
 Acq: 10 May 2018 18:07

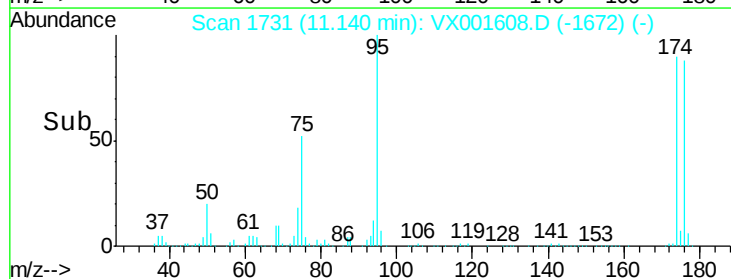
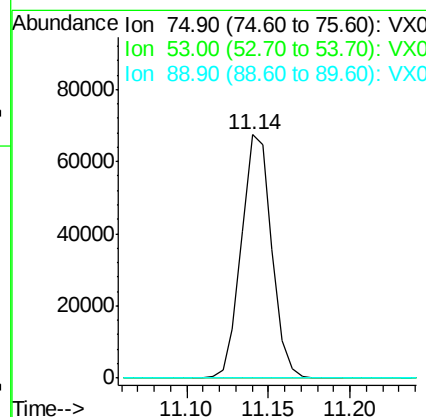
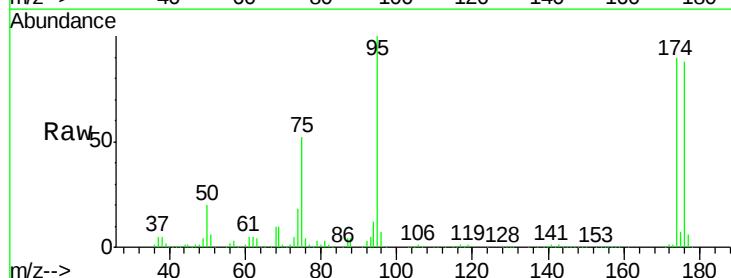
Instrument :
 MSVOA_X
 ClientSampleId :
 CB-TCLP-VAR5-0518

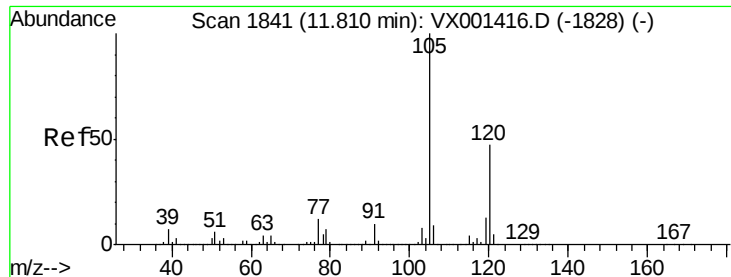
Tgt Ion: 75 Resp: 87213
 Ion Ratio Lower Upper
 75 100
 77 1.2 19.6 58.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 96.02 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX001608.D
 Acq: 10 May 2018 18:07

Tgt Ion: 75 Resp: 87213
 Ion Ratio Lower Upper
 75 100
 53 0.1 84.5 126.7#
 89 0.1 39.5 59.3#





#84

1,2,4-Trimethylbenzene

Concen: 0.21 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX001608.D

Acq: 10 May 2018 18:07

Instrument :

MSVOA_X

ClientSampleId :

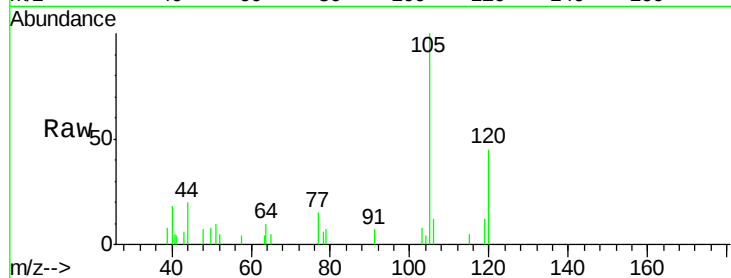
CB-TCLP-VAR5-0518

Tgt Ion:105 Resp: 1702

Ion Ratio Lower Upper

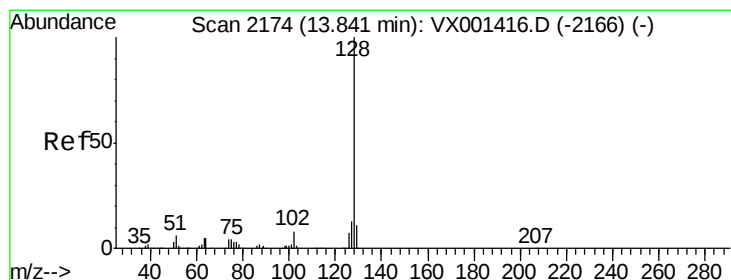
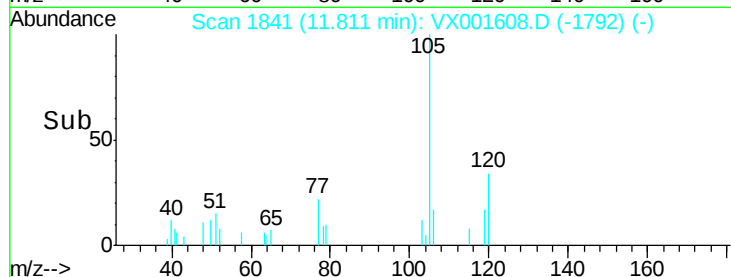
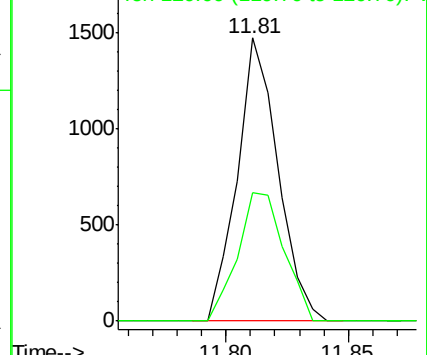
105 100

120 51.7 23.4 70.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 25.22 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.00 min

Lab File: VX001608.D

Acq: 10 May 2018 18:07

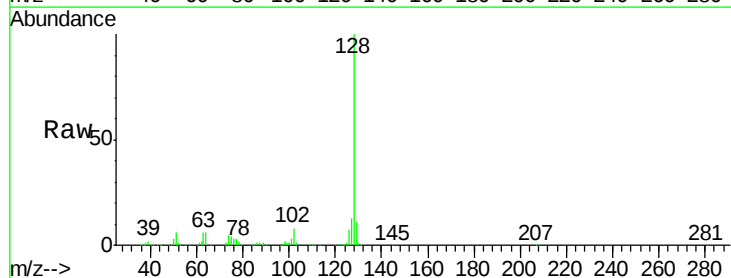
Tgt Ion:128 Resp: 255302

Ion Ratio Lower Upper

128 100

127 12.9 10.4 15.6

129 10.8 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

