

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062118\
 Data File : VX002815.D
 Acq On : 22 Jun 2018 04:00
 Operator : JC/MD
 Sample : PB110441ZHE#18
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB110441ZHE#18

Quant Time: Jun 22 05:22:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	232566	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	329528	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	311864	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	175705	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	163711	46.32	ug/l	0.00
Spiked Amount			Recovery	=	92.64%	
35) Dibromofluoromethane	5.51	113	128169	48.73	ug/l	0.00
Spiked Amount			Recovery	=	97.46%	
50) Toluene-d8	8.72	98	474690	47.54	ug/l	0.00
Spiked Amount			Recovery	=	95.08%	
62) 4-Bromofluorobenzene	11.14	95	164487	43.47	ug/l	0.00
Spiked Amount			Recovery	=	86.94%	

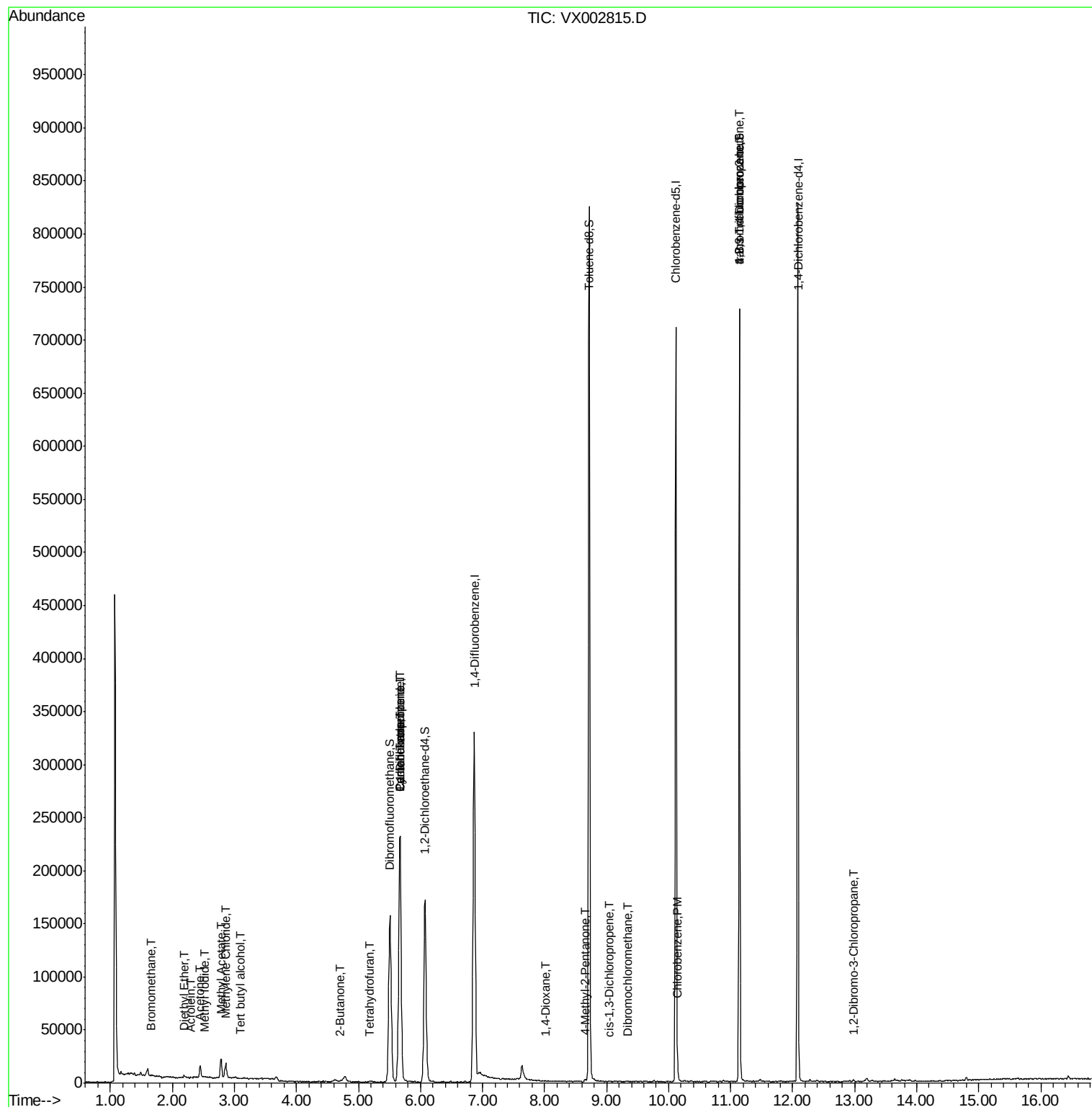
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1093	0.59	ug/l #	77
8) Diethyl Ether	2.19	74	598	0.32	ug/l	81
10) Methyl Iodide	2.51	142	1250	5.48	ug/l #	95
11) Tert butyl alcohol	3.09	59	338	0.46	ug/l #	65
13) Acrolein	2.31	56	113	7.18	ug/l #	1
16) Acetone	2.45	43	13404	8.60	ug/l	93
18) Methyl Acetate	2.78	43	22775	5.48	ug/l	97
20) Methylene Chloride	2.85	84	6442	2.02	ug/l	89
25) 2-Butanone	4.71	43	2626	1.28	ug/l #	77
29) Tetrahydrofuran	5.18	42	487	0.36	ug/l #	66
31) Cyclohexane	5.67	56	4768	1.14	ug/l #	6
36) 1,1-Dichloropropene	5.67	75	16314	4.66	ug/l #	52
38) Carbon Tetrachloride	5.67	117	21304	6.11	ug/l #	15
49) 1,4-Dioxane	8.01	88	21	0.33	ug/l #	22
51) 4-Methyl-2-Pentanone	8.65	43	1261	0.30	ug/l #	70
54) cis-1,3-Dichloropropene	9.04	75	28	3.22	ug/l #	48
60) Dibromochloromethane	9.34	129	41	3.77	ug/l #	11
65) Chlorobenzene	10.15	112	3154	0.41	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	88815	26.79	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	88815	82.73	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	12.99	75	350	0.48	ug/l #	1

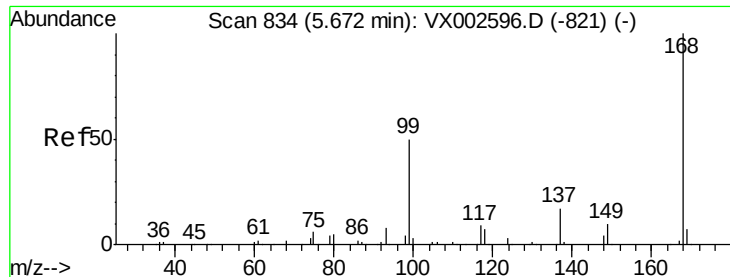
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 22 05:22:38 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:37:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002815.D

Acq: 22 Jun 2018 04:00

Instrument :

MSVOA_X

ClientSampleId :

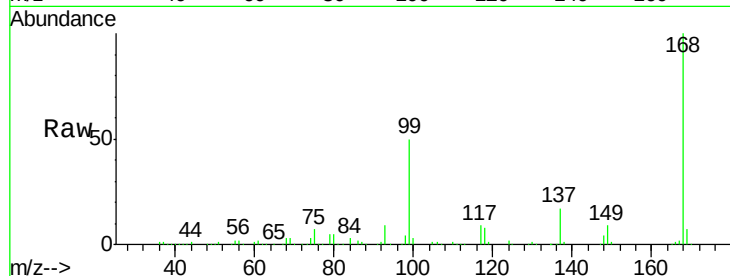
PB110441ZHE#18

Tot Ion:168 Resp: 232566

Ion Ratio Lower Upper

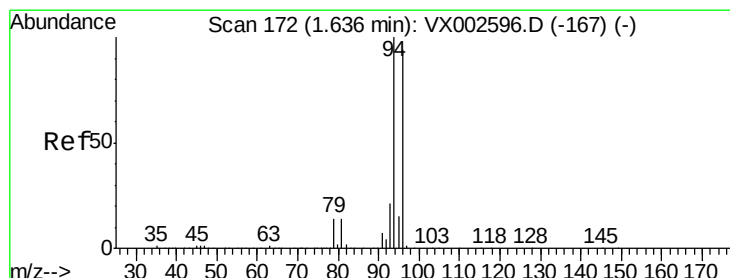
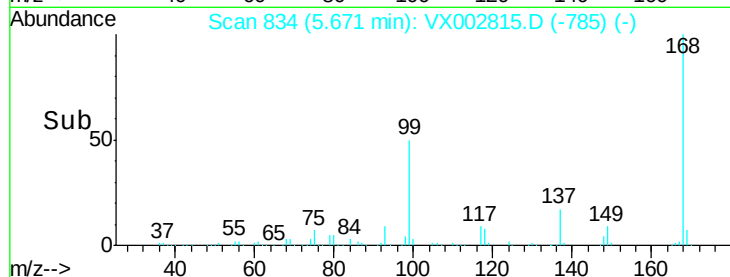
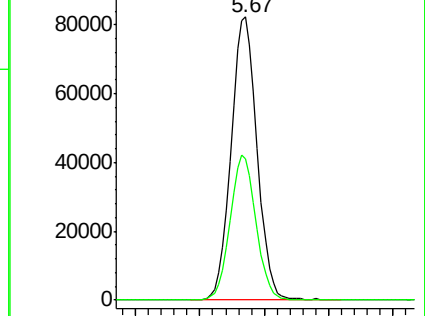
168 100

99 49.8 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.59 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002815.D

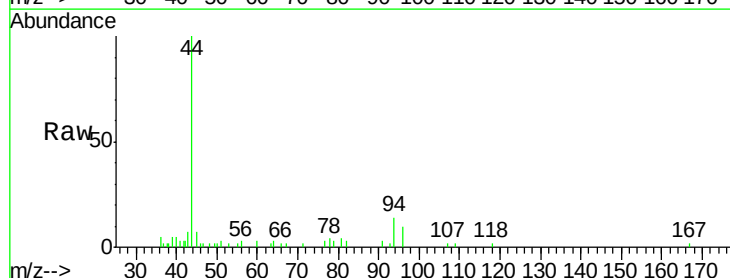
Acq: 22 Jun 2018 04:00

Tgt Ion: 94 Resp: 1093

Ion Ratio Lower Upper

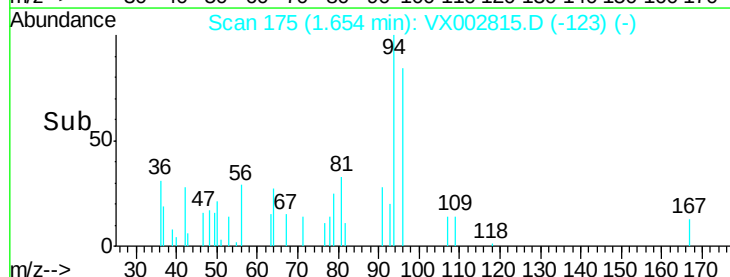
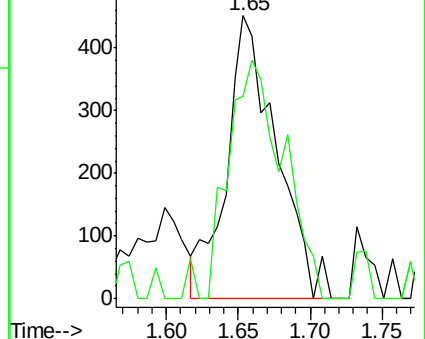
94 100

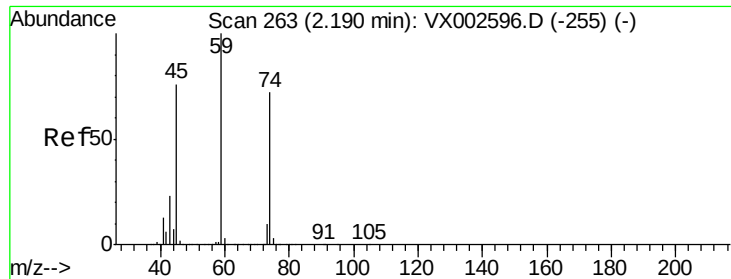
96 71.7 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#8

Diethyl Ether

Concen: 0.32 ug/l

RT: 2.19 min Scan# 263

Delta R.T. -0.00 min

Lab File: VX002815.D

Acq: 22 Jun 2018 04:00

Instrument :

MSVOA_X

ClientSampleId :

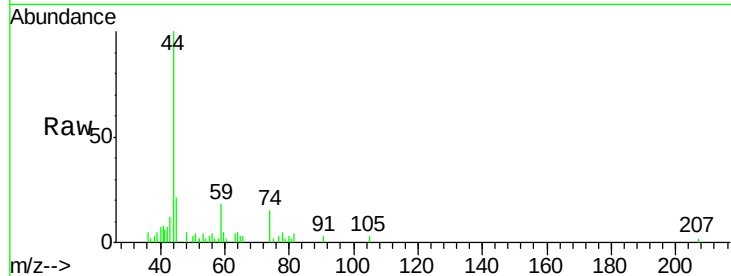
PB110441ZHE#18

Tot Ion: 74 Resp: 598

Ion Ratio Lower Upper

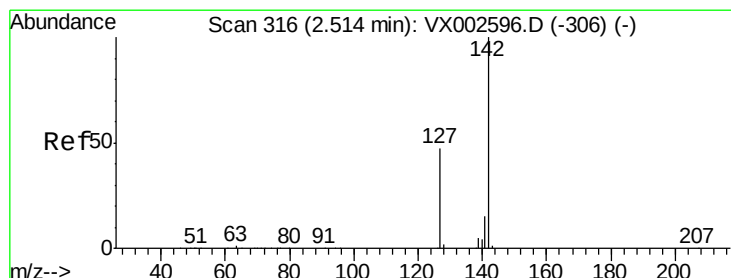
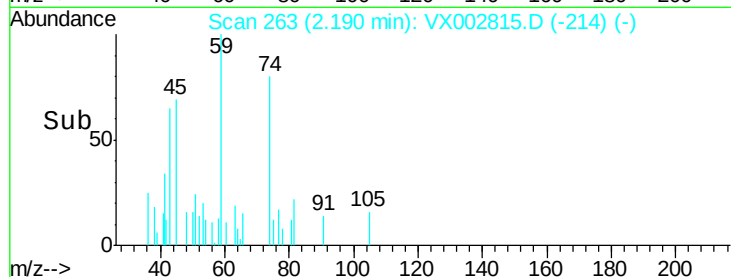
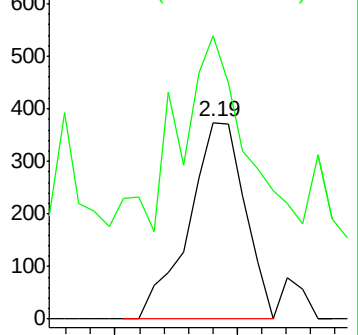
74 100

45 126.1 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#10

Methyl Iodide

Concen: 5.48 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX002815.D

Acq: 22 Jun 2018 04:00

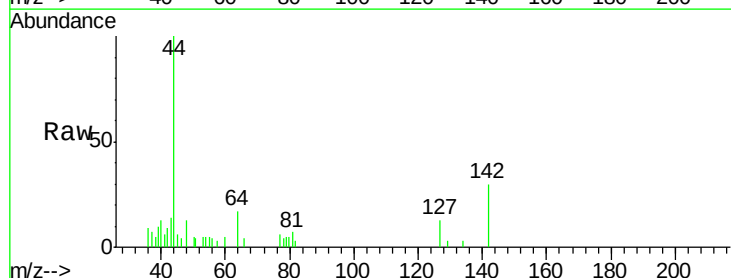
Tgt Ion: 142 Resp: 1250

Ion Ratio Lower Upper

142 100

127 44.8 36.6 55.0

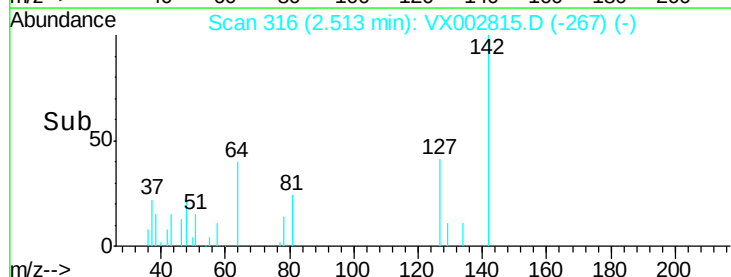
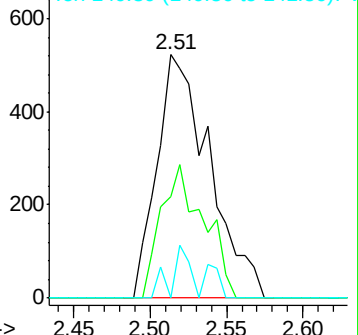
141 7.5 11.3 16.9#

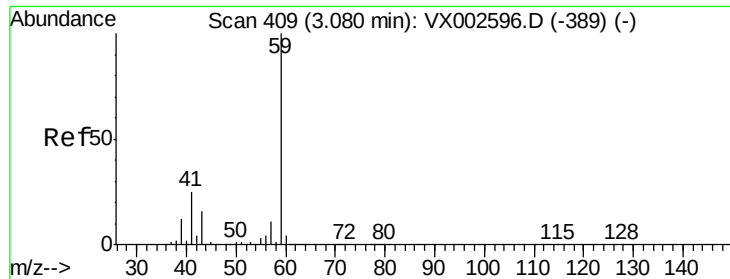


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



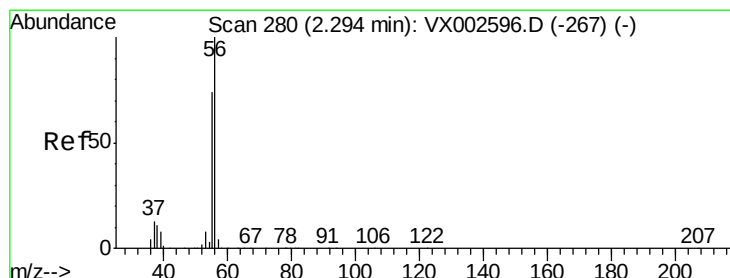
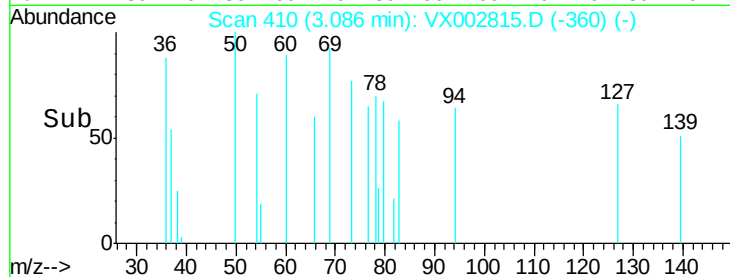
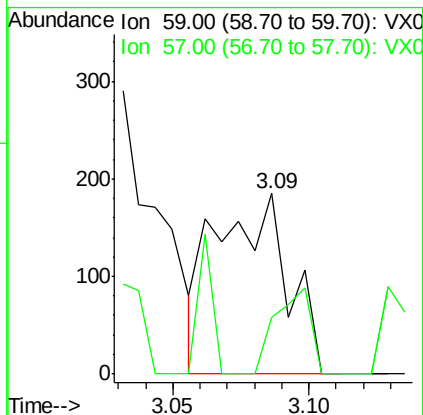
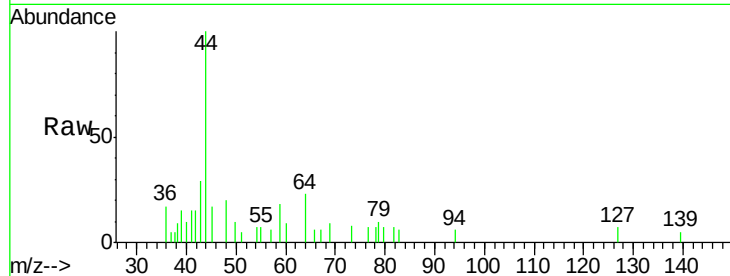


#11

Tert butyl alcohol
Concen: 0.46 ug/l
RT: 3.09 min Scan# 410
Delta R.T. 0.01 min
Lab File: VX002815.D
Acq: 22 Jun 2018 04:00

Instrument :
MSVOA_X
ClientSampleId :
PB110441ZHE#18

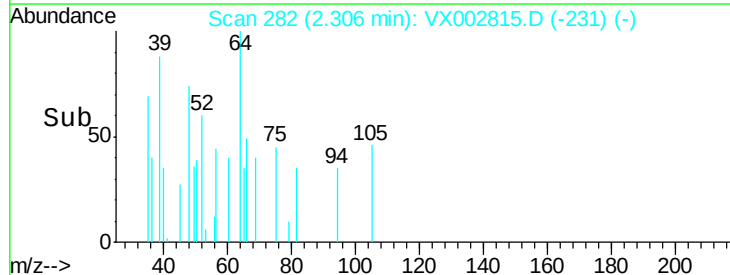
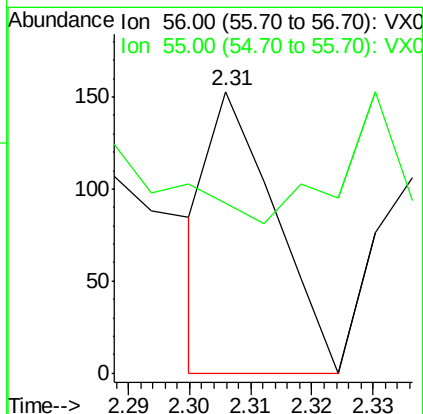
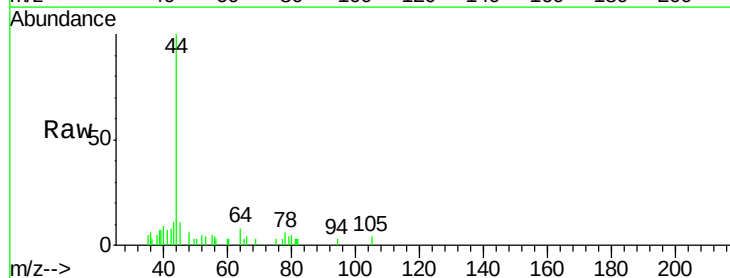
Tot Ion: 59 Resp: 338
Ion Ratio Lower Upper
59 100
57 23.4 8.2 12.2#

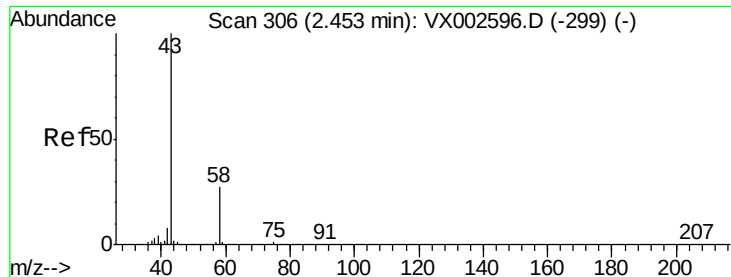


#13

Acrolein
Concen: 7.18 ug/l
RT: 2.31 min Scan# 282
Delta R.T. 0.01 min
Lab File: VX002815.D
Acq: 22 Jun 2018 04:00

Tgt Ion: 56 Resp: 113
Ion Ratio Lower Upper
56 100
55 190.3 57.0 85.4#





#16

Acetone

Concen: 8.60 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002815.D

Acq: 22 Jun 2018 04:00

Instrument :

MSVOA_X

ClientSampleId :

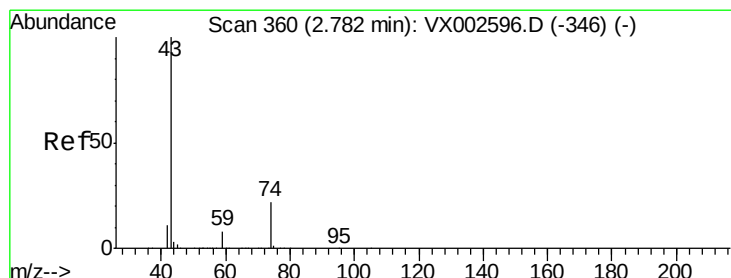
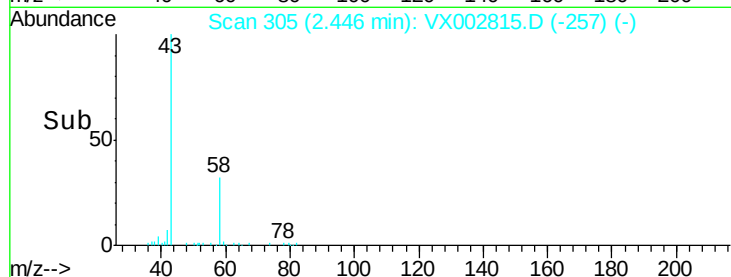
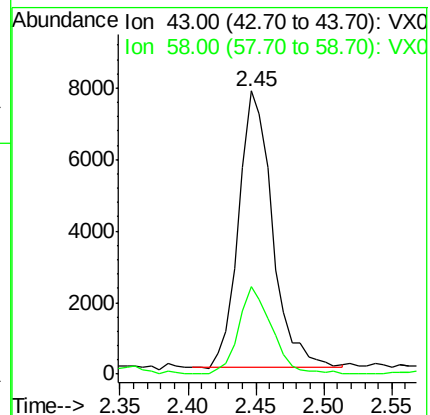
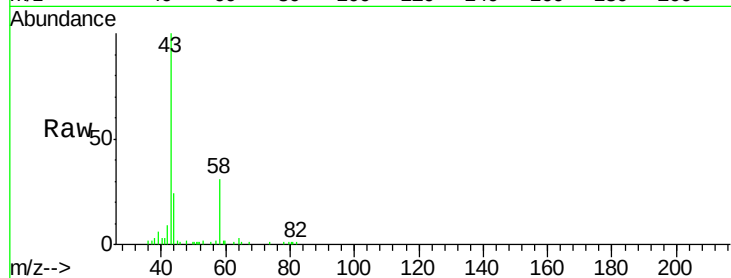
PB110441ZHE#18

Tot Ion: 43 Resp: 13404

Ion Ratio Lower Upper

43 100

58 31.5 22.1 33.1



#18

Methyl Acetate

Concen: 5.48 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002815.D

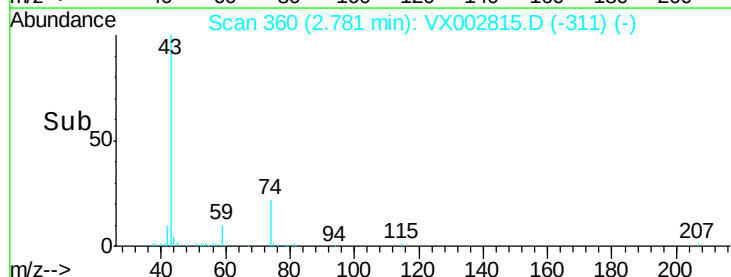
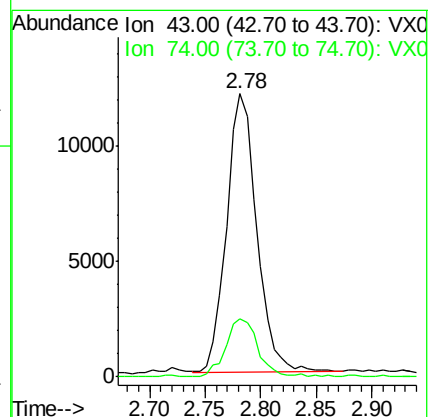
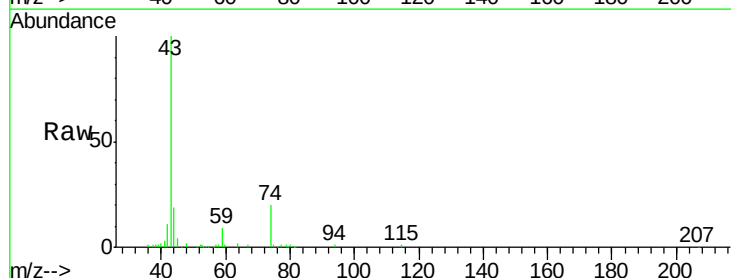
Acq: 22 Jun 2018 04:00

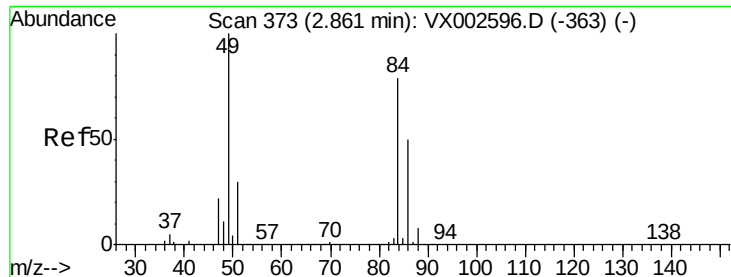
Tgt Ion: 43 Resp: 22775

Ion Ratio Lower Upper

43 100

74 22.5 16.7 25.1



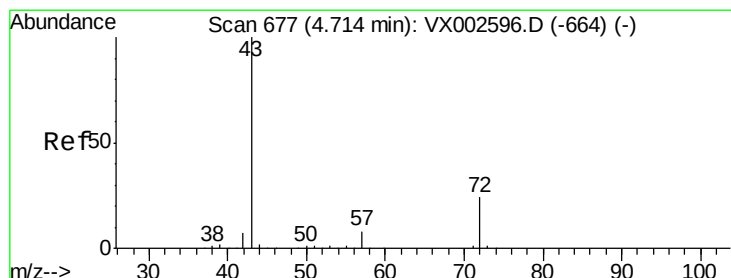
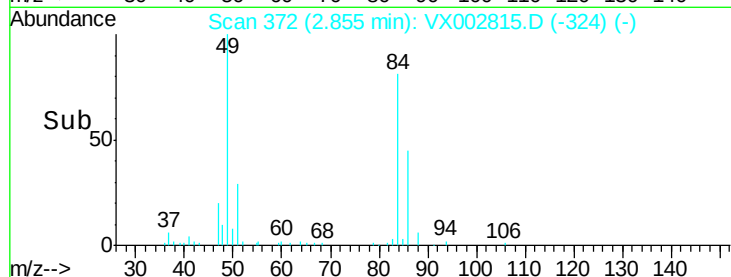
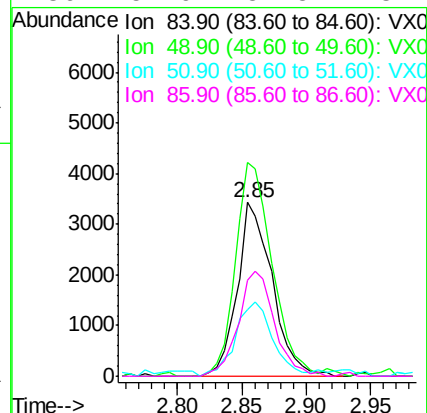
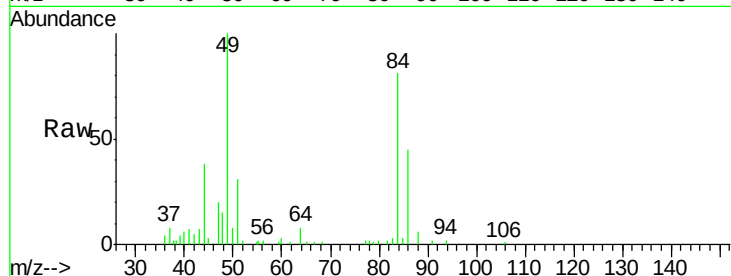


#20
Methvlene Chloride
Concen: 2.02 ug/l
RT: 2.85 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX002815.D
Acq: 22 Jun 2018 04:00

Instrument :
MSVOA_X
ClientSampleId :
PB110441ZHE#18

Tot Ion: 84 Resp: 6442

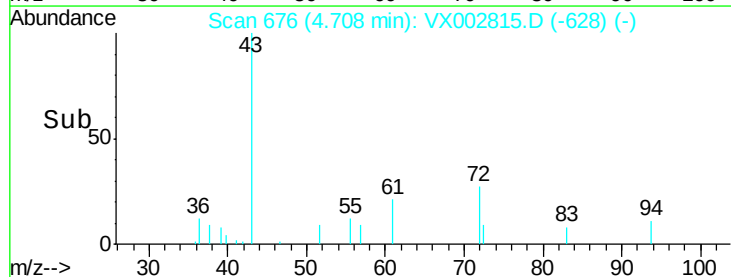
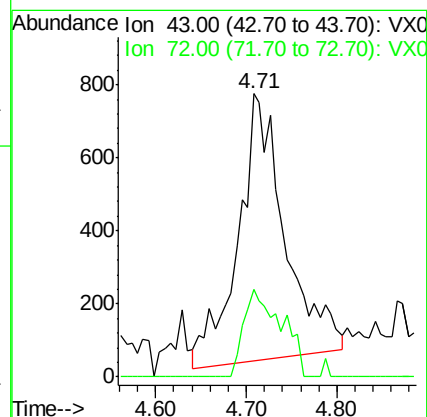
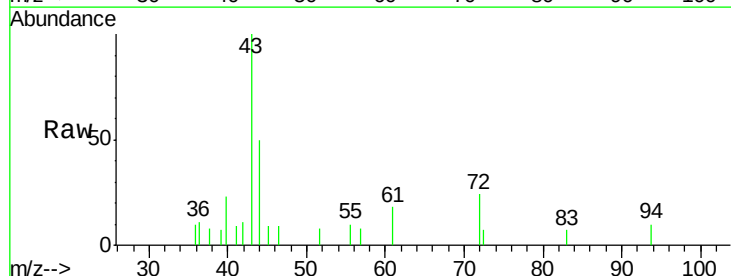
Ion	Ratio	Lower	Upper
84	100		
49	122.7	107.8	161.6
51	35.3	32.8	49.2
86	54.9	52.5	78.7

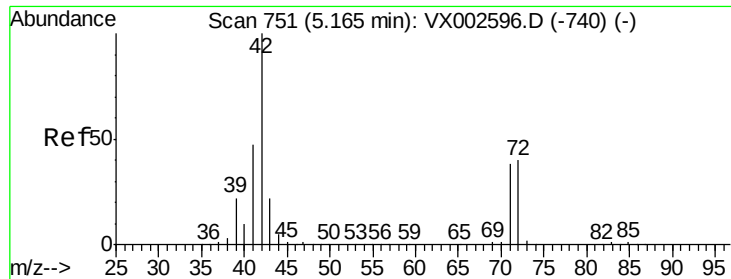


#25
2-Butanone
Concen: 1.28 ug/l
RT: 4.71 min Scan# 676
Delta R.T. -0.01 min
Lab File: VX002815.D
Acq: 22 Jun 2018 04:00

Tgt Ion: 43 Resp: 2626

Ion	Ratio	Lower	Upper
43	100		
72	34.4	18.5	27.7#

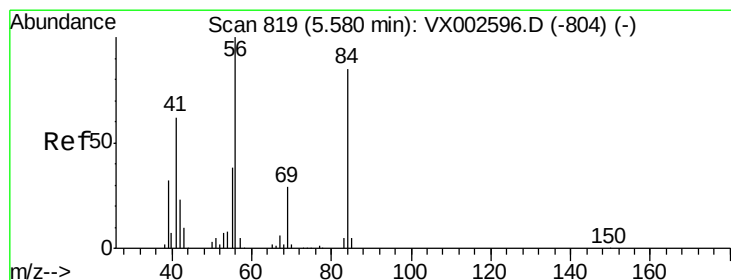
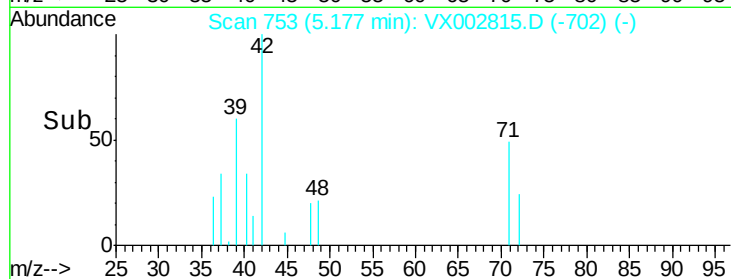
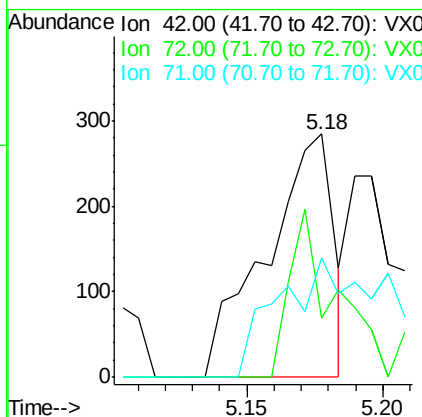
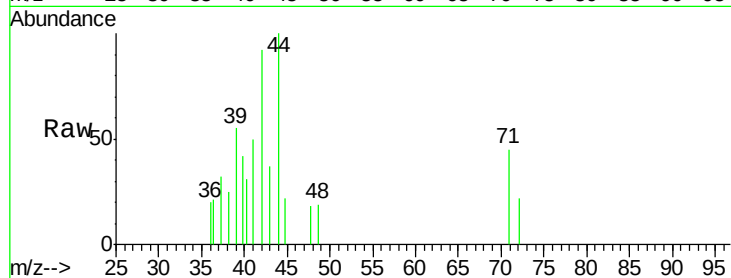




#29
Tetrahydrofuran
Concen: 0.36 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX002815.D
Acq: 22 Jun 2018 04:00

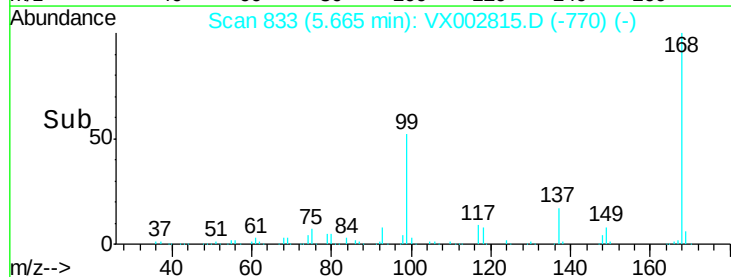
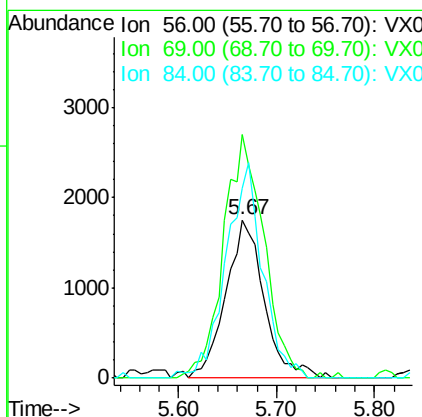
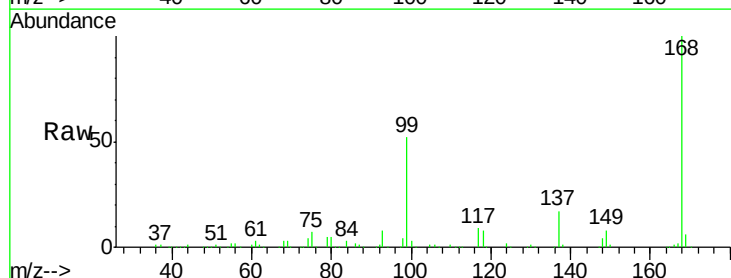
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MSVOA_X
ClientSampleId :
PB110441ZHE#18

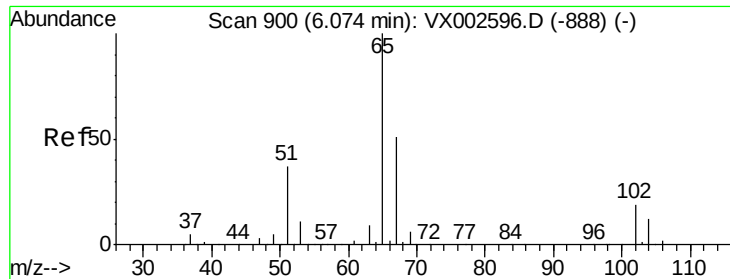
Tot Ion: 42 Resp: 487
Ion Ratio Lower Upper
42 100
72 46.2 32.0 48.0
71 73.5 30.1 45.1#



#31
Cyclohexane
Concen: 1.14 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX002815.D
Acq: 22 Jun 2018 04:00

Tgt Ion: 56 Resp: 4768
Ion Ratio Lower Upper
56 100
69 150.5 23.7 35.5#
84 120.2 64.1 96.1#

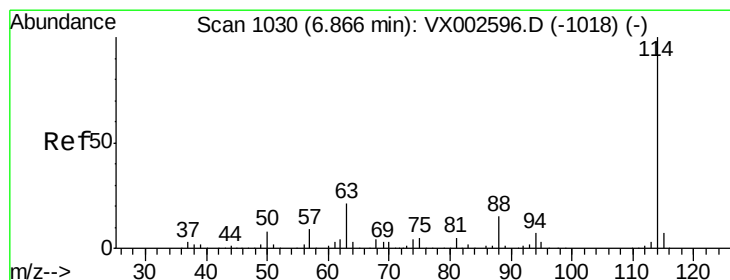
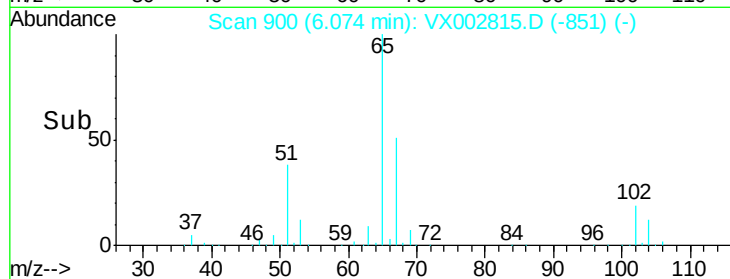
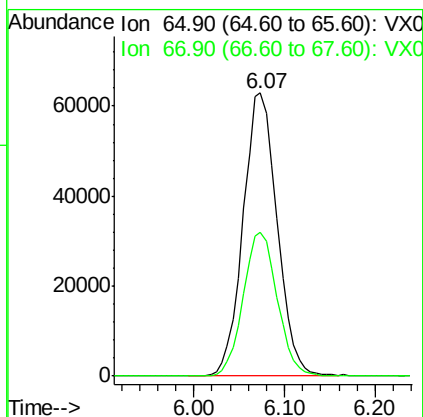
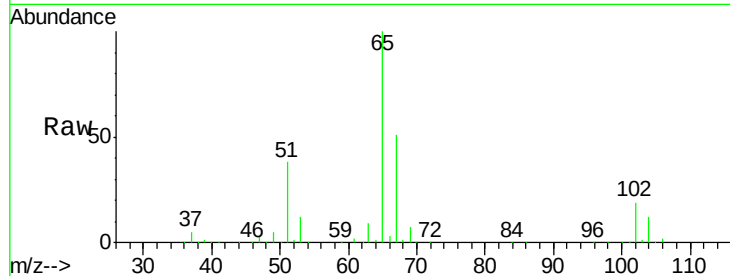




#33
 1,2-Dichloroethane-d4
 Concen: 46.32 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002815.D
 Acq: 22 Jun 2018 04:00

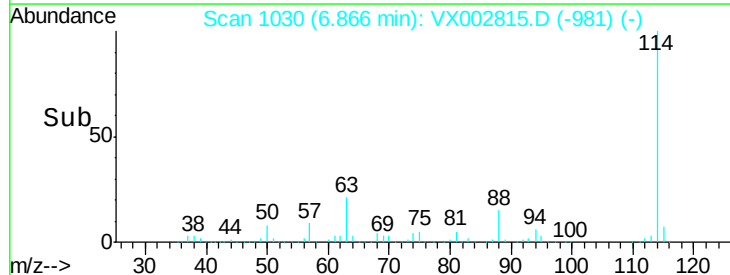
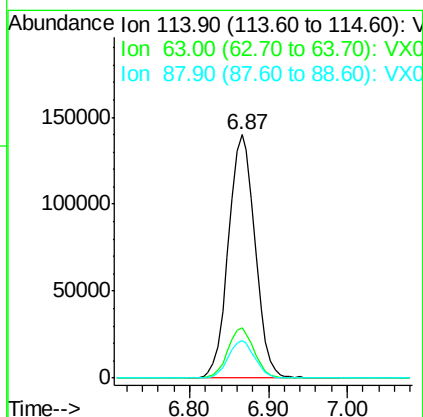
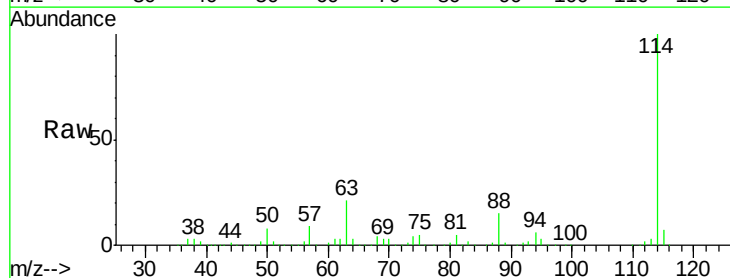
Instrument :
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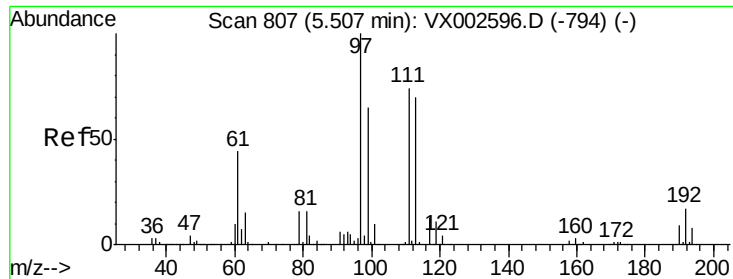
Tot Ion: 65 Resp: 163711
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002815.D
 Acq: 22 Jun 2018 04:00

Tgt Ion: 114 Resp: 329528
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 41.4
 88 15.2 0.0 30.0

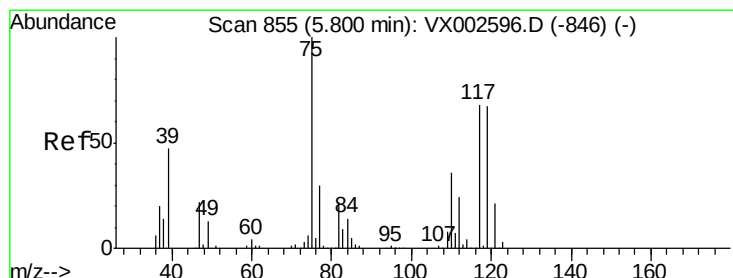
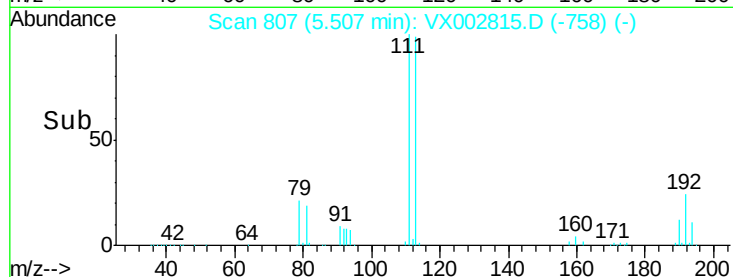
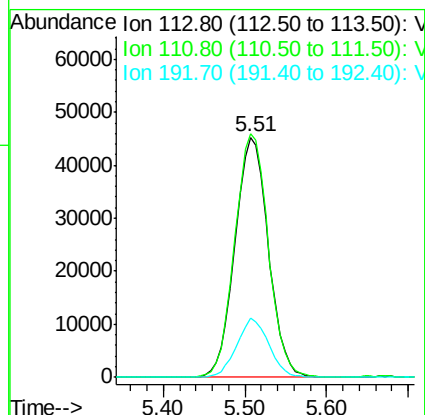
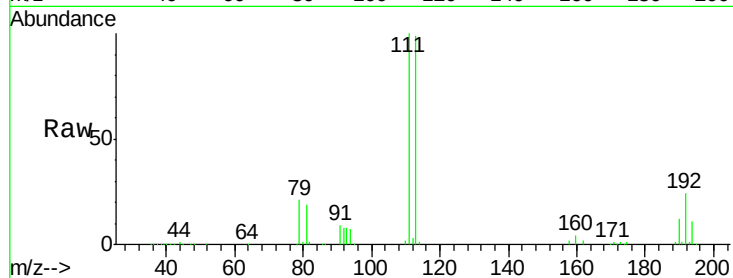




#35
Dibromofluoromethane
Concen: 48.73 ug/l
RT: 5.51 min Scan# 807
Delta R.T. -0.00 min
Lab File: VX002815.D
Acq: 22 Jun 2018 04:00

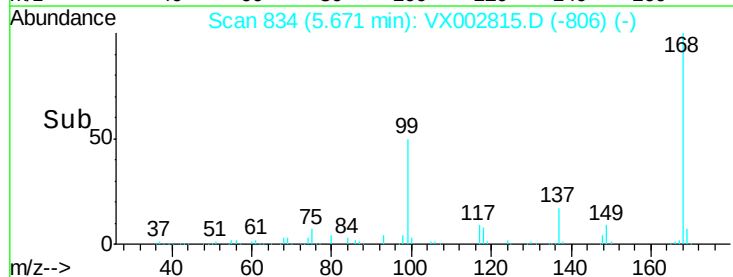
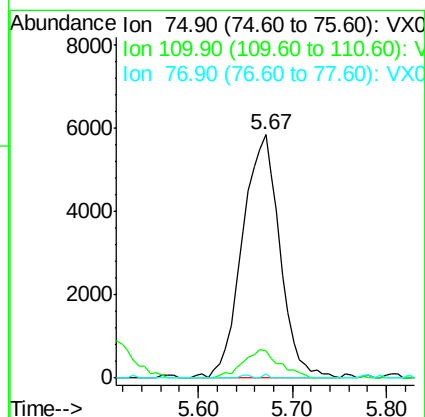
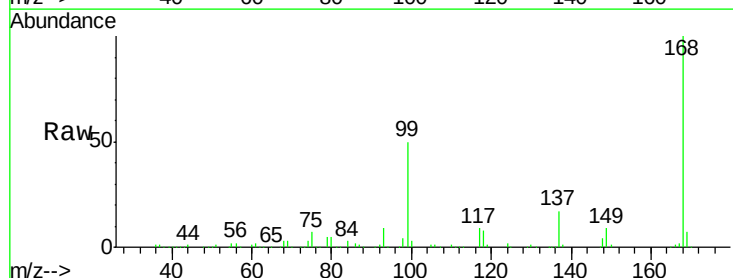
Instrument :
MSVOA_X
ClientSampleId :
PB110441ZHE#18

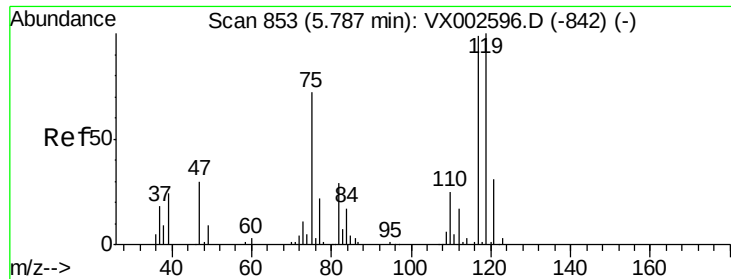
Tot Ion:113 Resp: 128169
Ion Ratio Lower Upper
113 100
111 101.9 81.4 122.0
192 23.8 19.1 28.7



#36
1,1-Dichloropropene
Concen: 4.66 ug/l
RT: 5.67 min Scan# 834
Delta R.T. -0.13 min
Lab File: VX002815.D
Acq: 22 Jun 2018 04:00

Tgt Ion: 75 Resp: 16314
Ion Ratio Lower Upper
75 100
110 11.5 18.1 54.4#
77 0.3 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 6.11 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002815.D

Acq: 22 Jun 2018 04:00

Instrument :

MSVOA_X

ClientSampleId :

PB110441ZHE#18

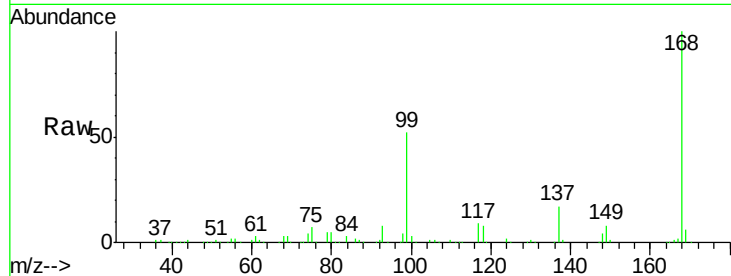
Tot Ion:117 Resp: 21304

Ion Ratio Lower Upper

117 100

119 4.7 77.4 116.0#

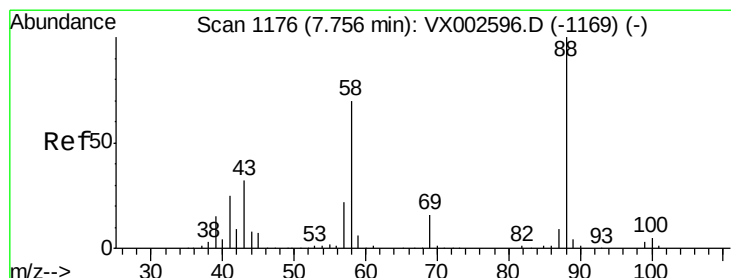
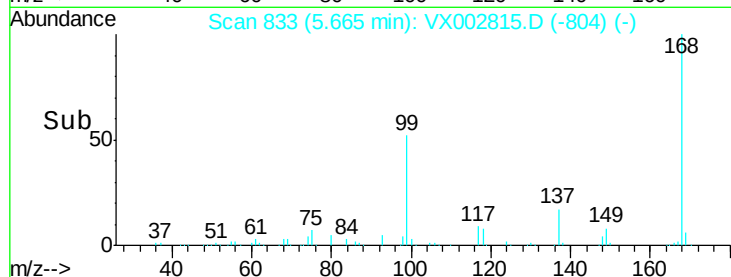
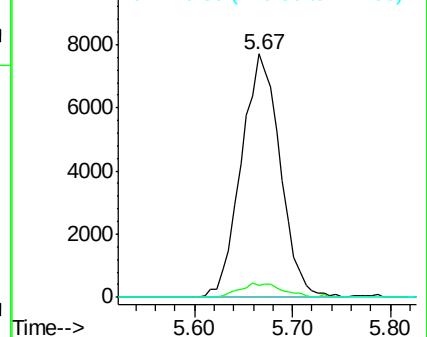
121 0.0 24.4 36.6#



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



#49

1,4-Dioxane

Concen: 0.33 ug/l

RT: 8.01 min Scan# 1218

Delta R.T. 0.26 min

Lab File: VX002815.D

Acq: 22 Jun 2018 04:00

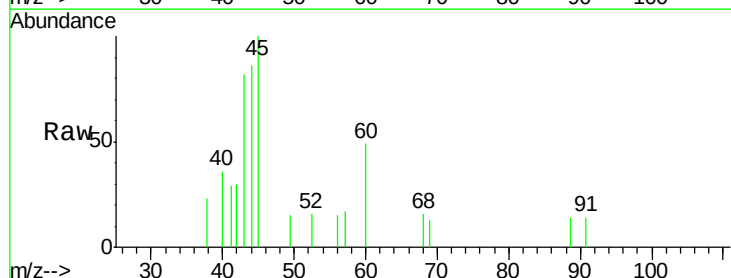
Tgt Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 0.0 29.8 44.6#

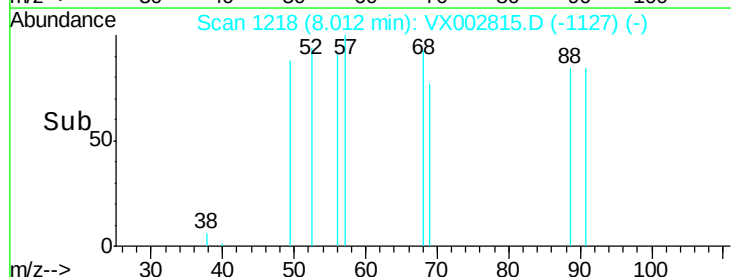
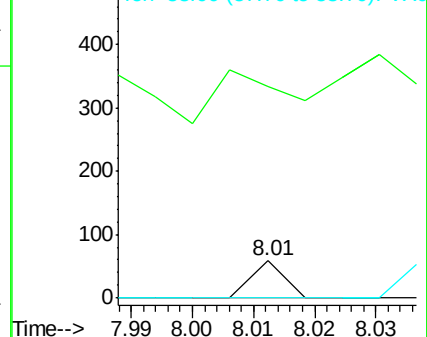
58 0.0 57.1 85.7#

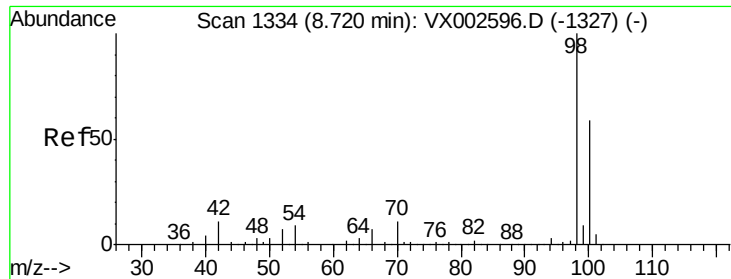


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

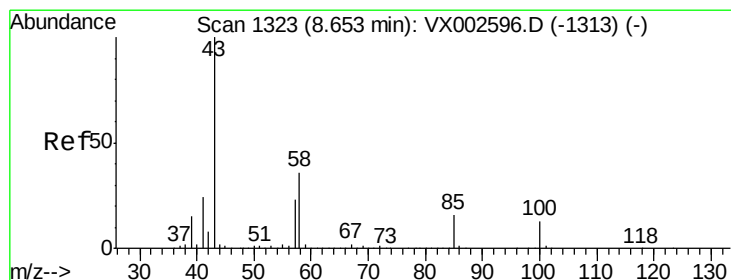
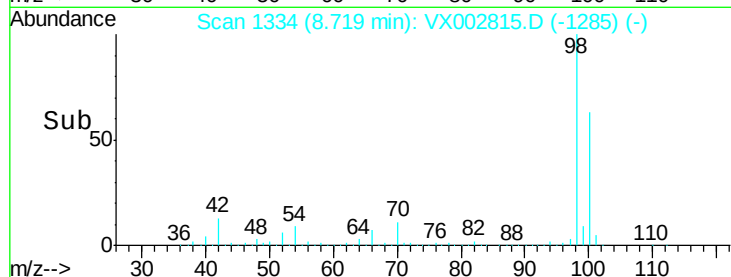
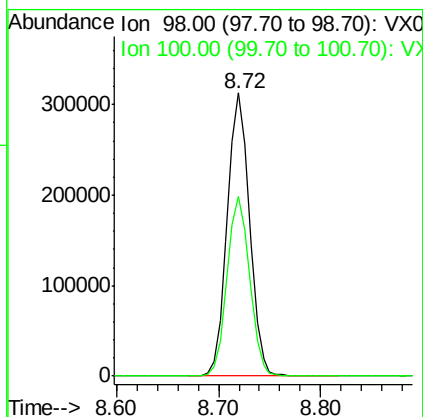
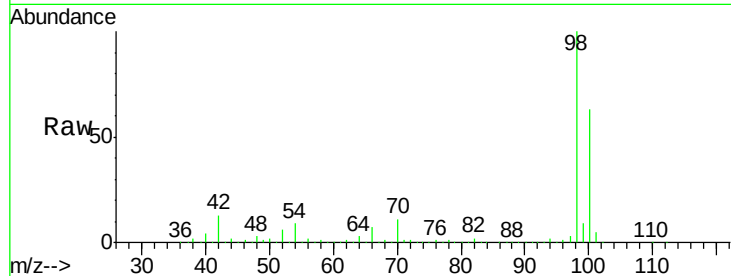




#50
Toluene-d8
Concen: 47.54 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002815.D
Acq: 22 Jun 2018 04:00

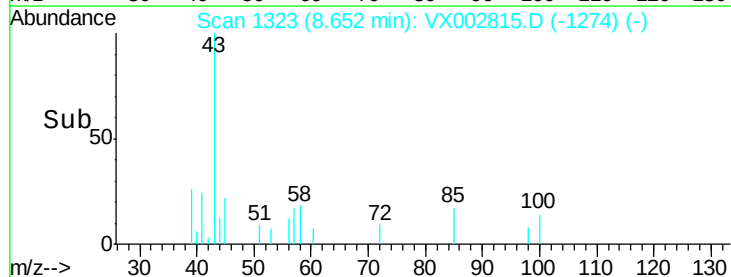
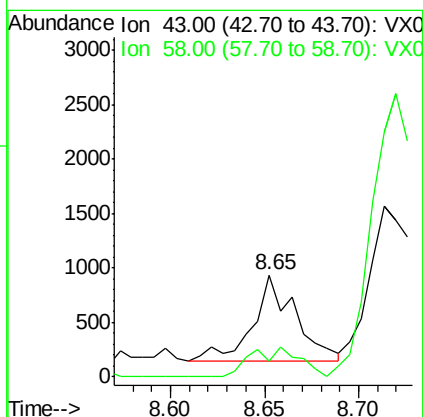
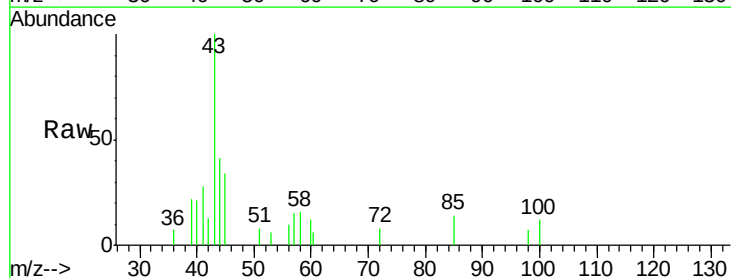
Instrument :
MSVOA_X
ClientSampleId :
PB110441ZHE#18

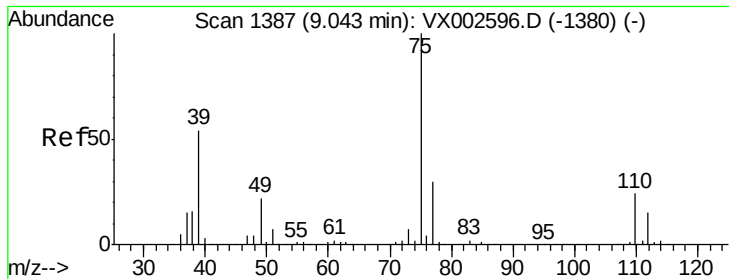
Tot Ion: 98 Resp: 474690
Ion Ratio Lower Upper
98 100
100 63.7 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.30 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. -0.00 min
Lab File: VX002815.D
Acq: 22 Jun 2018 04:00

Tgt Ion: 43 Resp: 1261
Ion Ratio Lower Upper
43 100
58 18.2 28.6 42.8#





#54

cis-1,3-Dichloropropene

Concen: 3.22 ug/l

RT: 9.04 min Scan# 1387

Delta R.T. 0.00 min

Lab File: VX002815.D

Acq: 22 Jun 2018 04:00

Instrument :

MSVOA_X

ClientSampleId :

PB110441ZHE#18

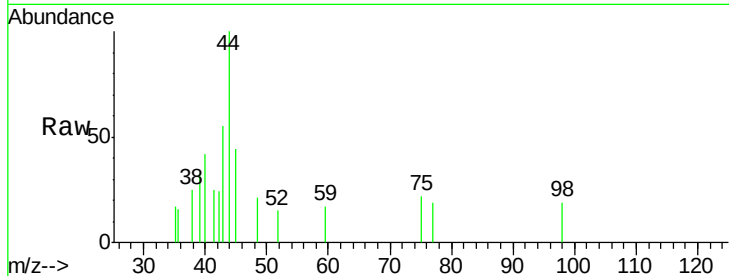
Tot Ion: 75 Resp: 28

Ion Ratio Lower Upper

75 100

77 85.5 24.8 37.2#

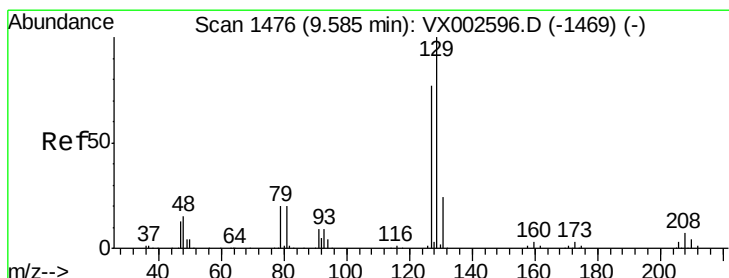
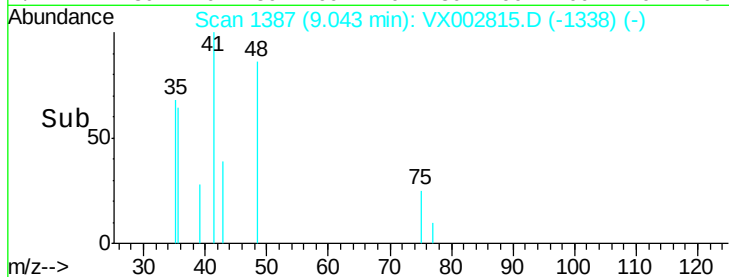
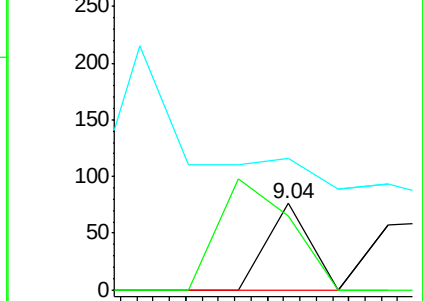
39 35.5 42.4 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#60

Dibromochloromethane

Concen: 3.77 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.25 min

Lab File: VX002815.D

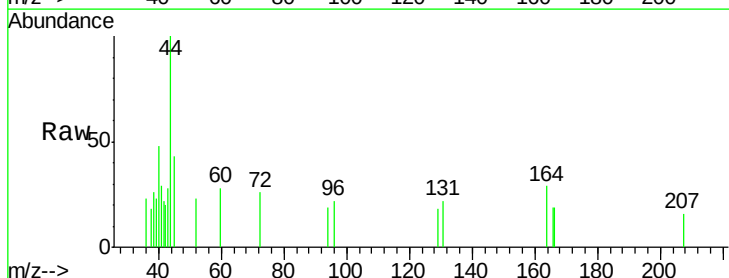
Acq: 22 Jun 2018 04:00

Tgt Ion: 129 Resp: 41

Ion Ratio Lower Upper

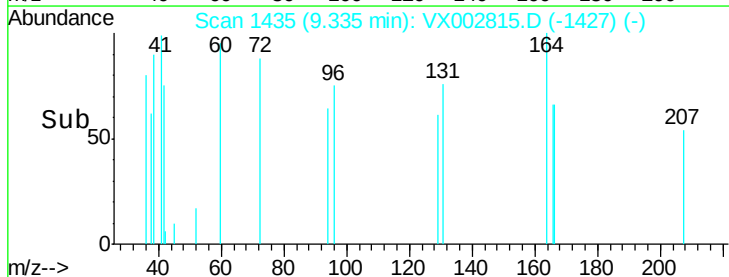
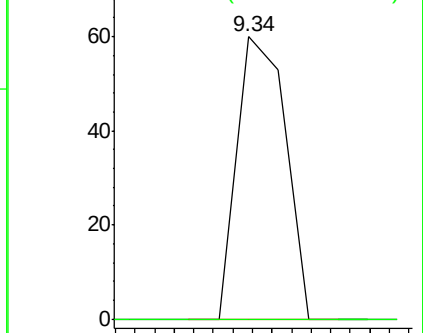
129 100

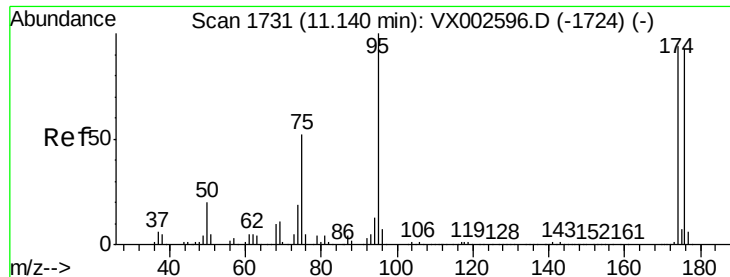
127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

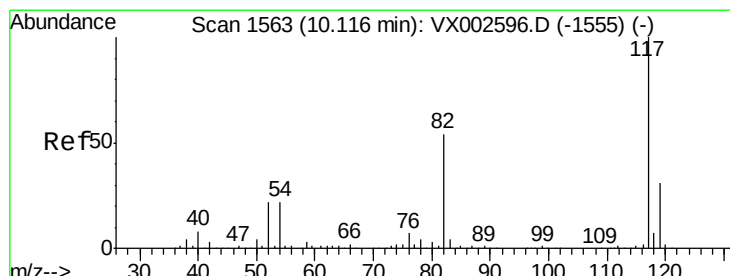
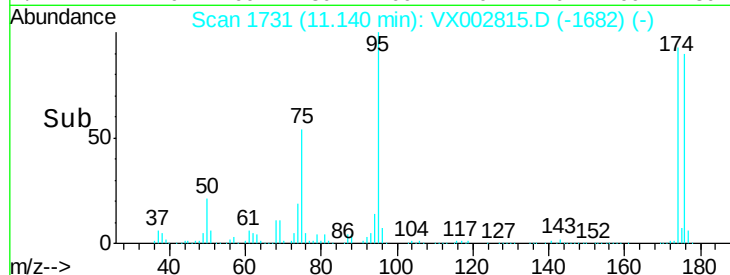
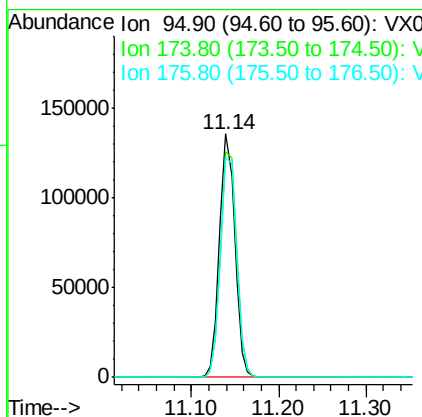
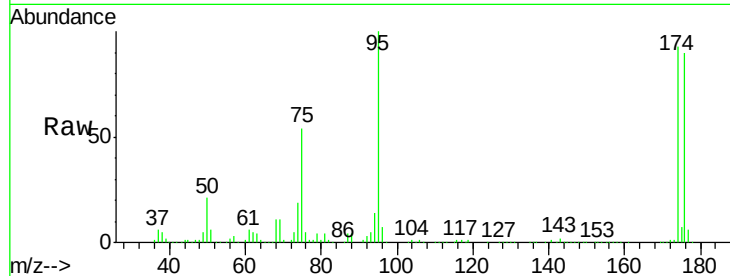




#62
4-Bromofluorobenzene
Concen: 43.47 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002815.D
Acq: 22 Jun 2018 04:00

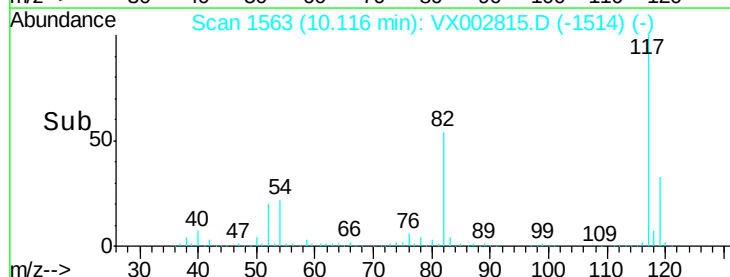
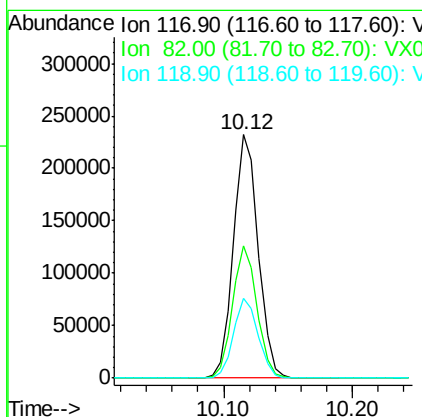
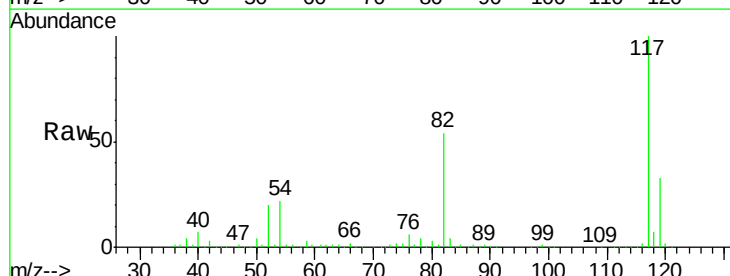
Instrument :
MSVOA_X
ClientSampleId :
PB110441ZHE#18

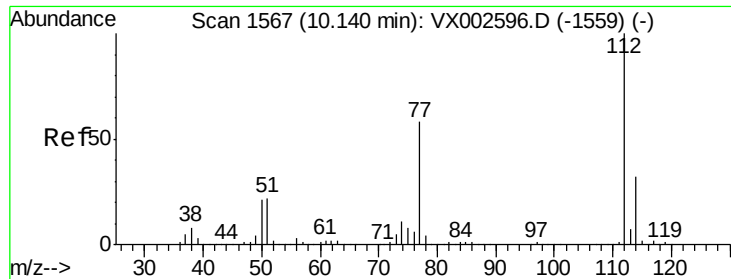
Tot Ion: 95 Resp: 164487
Ion Ratio Lower Upper
95 100
174 98.2 0.0 187.4
176 94.5 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002815.D
Acq: 22 Jun 2018 04:00

Tgt Ion: 117 Resp: 311864
Ion Ratio Lower Upper
117 100
82 54.3 45.0 67.4
119 32.8 25.8 38.6





#65

Chlorobenzene

Concen: 0.41 ug/l

RT: 10.15 min Scan# 1568

Delta R.T. 0.01 min

Lab File: VX002815.D

Acq: 22 Jun 2018 04:00

Instrument :

MSVOA_X

ClientSampleId :

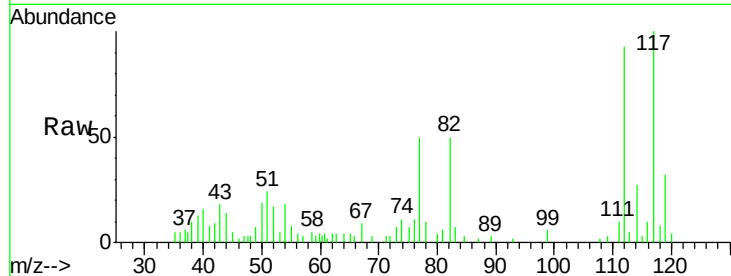
PB110441ZHE#18

Tot Ion:112 Resp: 3154

Ion Ratio Lower Upper

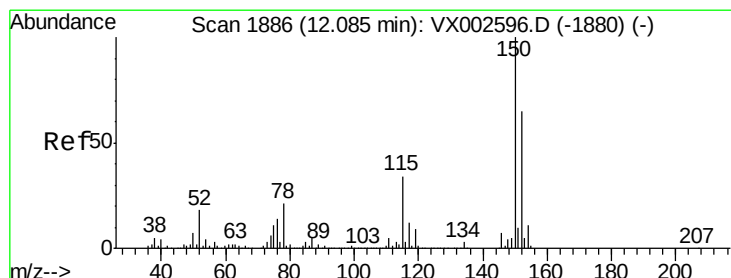
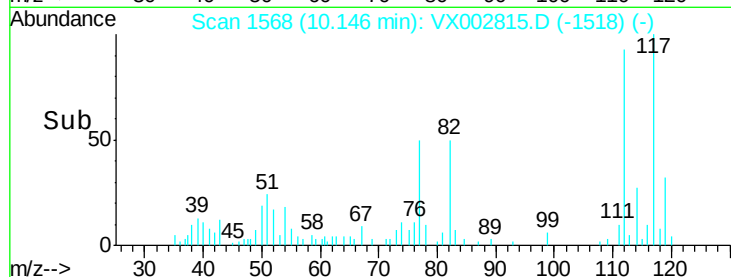
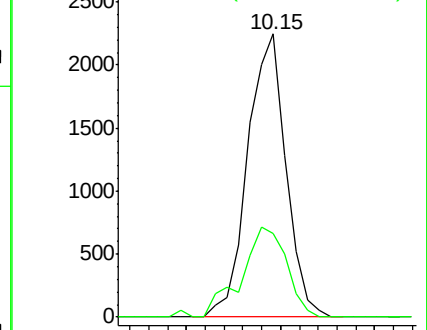
112 100

114 29.7 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002815.D

Acq: 22 Jun 2018 04:00

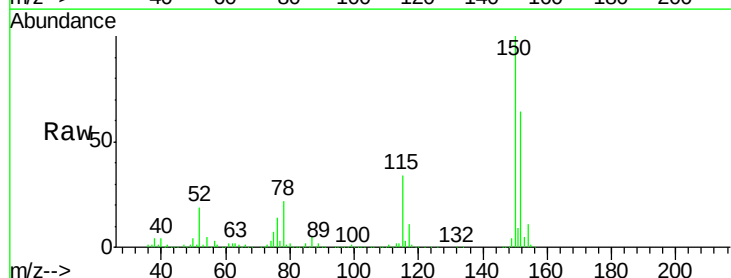
Tgt Ion:152 Resp: 175705

Ion Ratio Lower Upper

152 100

115 54.4 40.1 120.2

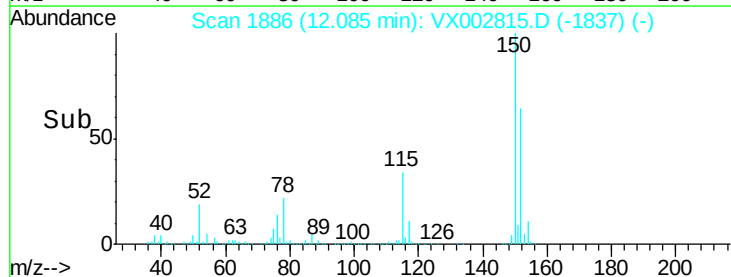
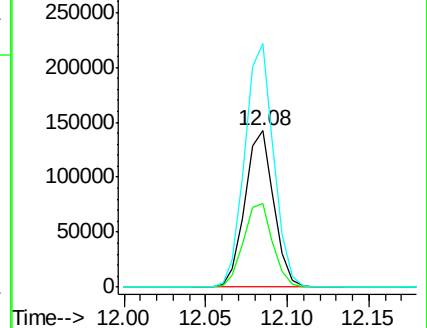
150 155.8 0.0 347.2

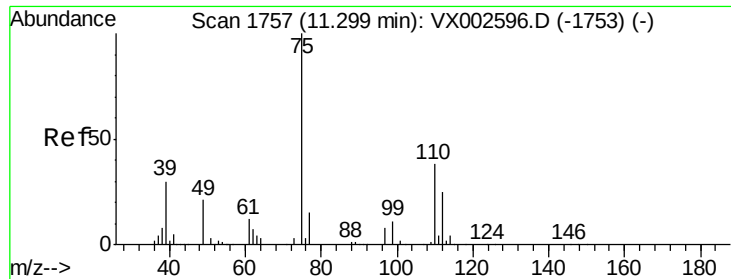


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

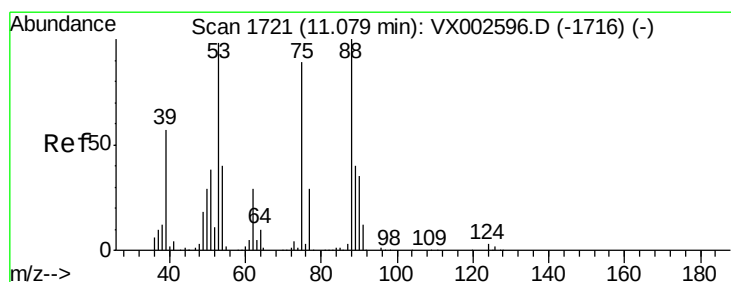
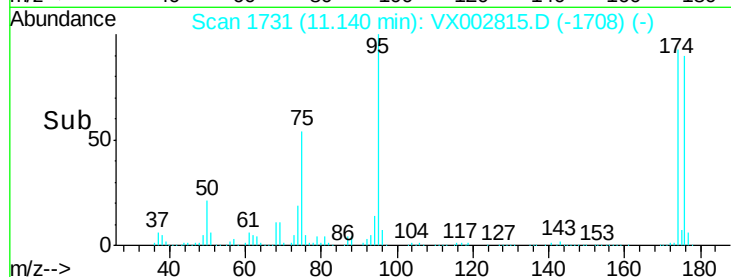
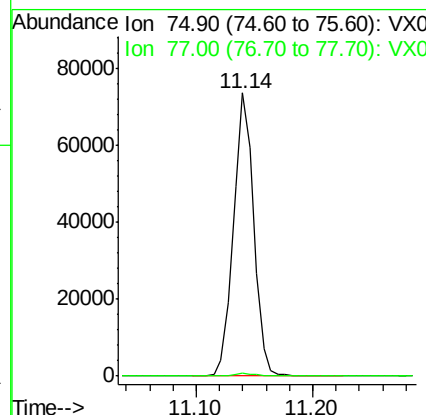
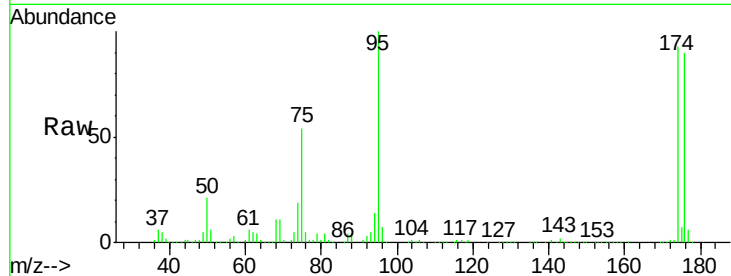




#76
 1,2,3-Trichloropropane
 Concen: 26.79 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002815.D
 Acq: 22 Jun 2018 04:00

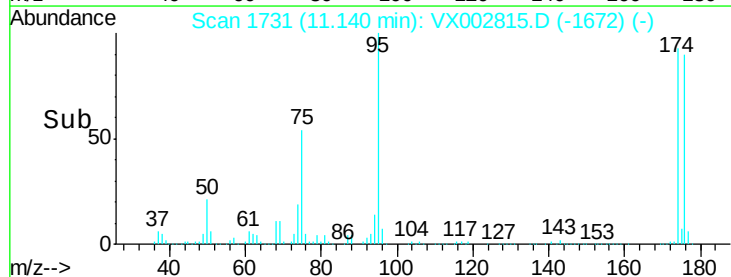
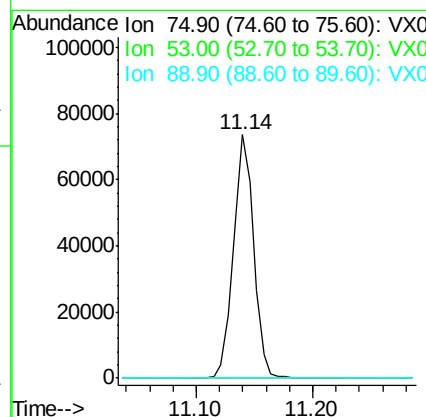
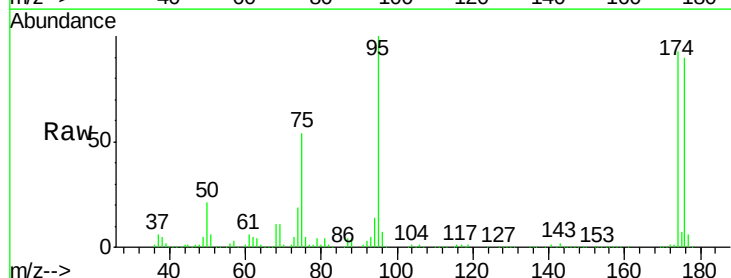
Instrument :
 MSVOA_X
 ClientSampleId :
 PB110441ZHE#18

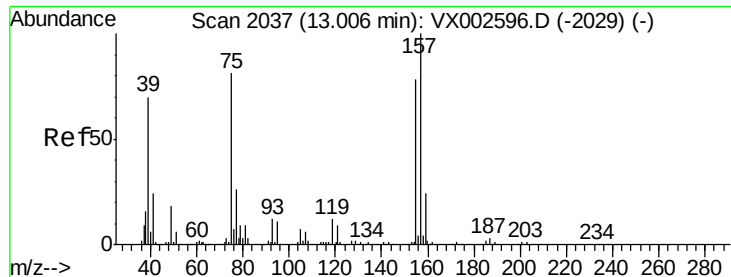
Tot Ion: 75 Resp: 88815
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 82.73 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002815.D
 Acq: 22 Jun 2018 04:00

Tgt Ion: 75 Resp: 88815
 Ion Ratio Lower Upper
 75 100
 53 0.3 86.8 130.2#
 89 0.0 38.2 57.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.48 ug/l

RT: 12.99 min Scan# 2034

Delta R.T. -0.02 min

Lab File: VX002815.D

Acq: 22 Jun 2018 04:00

Instrument :

MSVOA_X

ClientSampleId :

PB110441ZHE#18

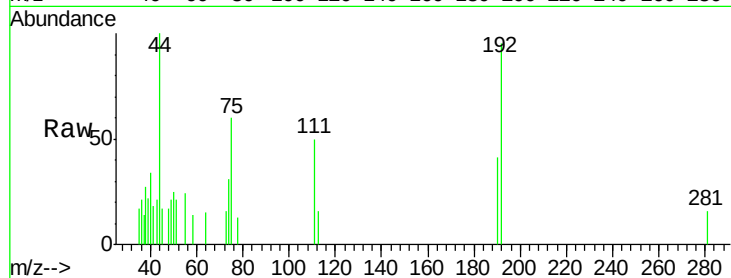
Tot Ion: 75 Resp: 350

Ion Ratio Lower Upper

75 100

155 0.0 45.8 137.4#

157 0.0 60.1 180.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

