

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062118\
 Data File : VX002816.D
 Acq On : 22 Jun 2018 04:26
 Operator : JC/MD
 Sample : PB110441ZHE#19
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 22 05:22:53 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	229084	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	323101	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	302903	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	169363	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	157687	45.30	ug/l	0.00
Spiked Amount			Recovery	=	90.60%	
35) Dibromofluoromethane	5.51	113	124886	48.43	ug/l	0.00
Spiked Amount			Recovery	=	96.86%	
50) Toluene-d8	8.72	98	463451	47.33	ug/l	0.00
Spiked Amount			Recovery	=	94.66%	
62) 4-Bromofluorobenzene	11.14	95	160365	43.22	ug/l	0.00
Spiked Amount			Recovery	=	86.44%	

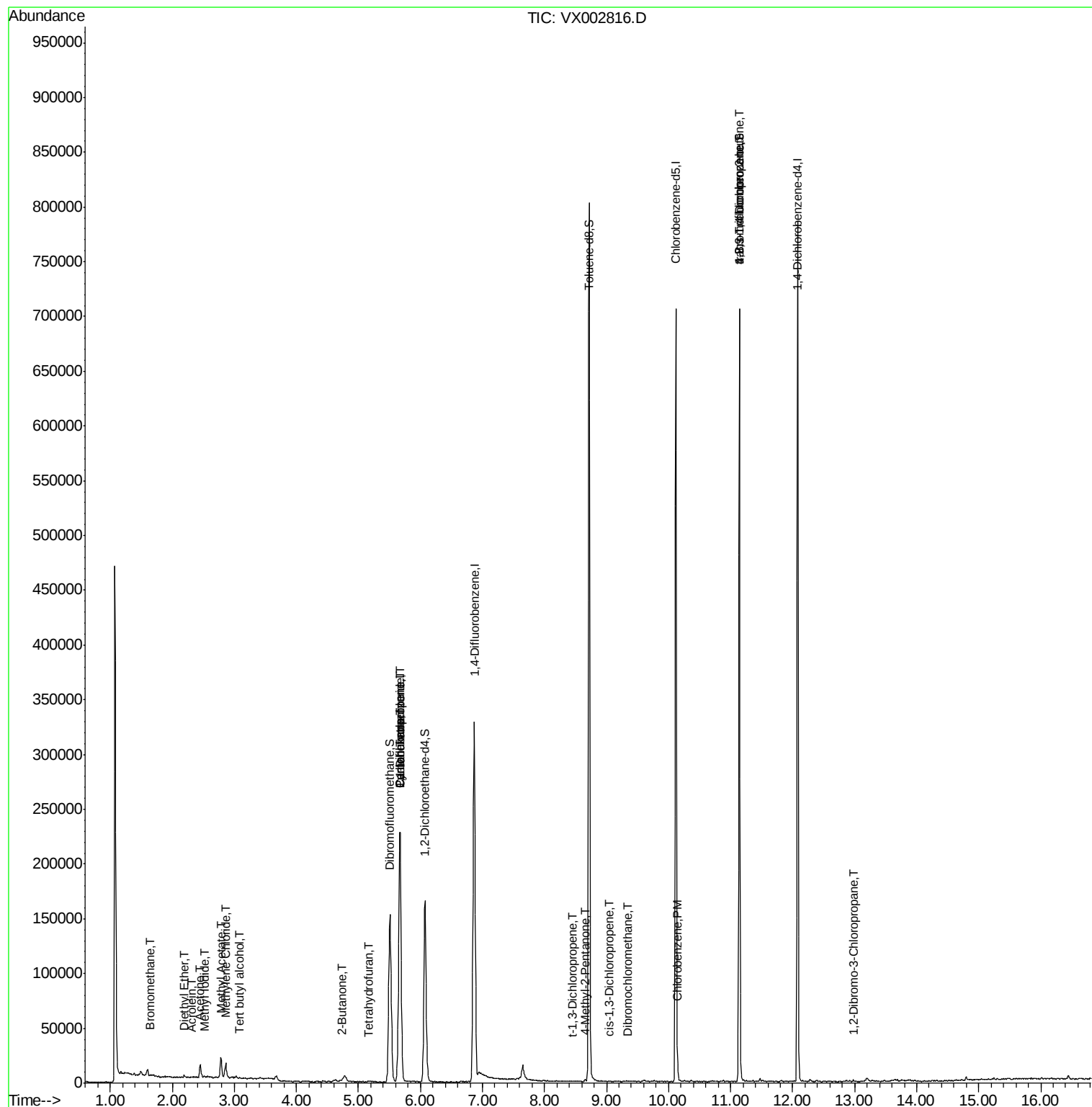
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	995	0.55	ug/l	94
8) Diethyl Ether	2.19	74	607	0.33	ug/l	84
10) Methyl Iodide	2.53	142	1107	5.45	ug/l	91
11) Tert butyl alcohol	3.07	59	346	0.48	ug/l #	1
13) Acrolein	2.31	56	221	7.50	ug/l	89
16) Acetone	2.45	43	13217	8.61	ug/l	98
18) Methyl Acetate	2.78	43	22457	5.49	ug/l	97
20) Methylene Chloride	2.86	84	6150	1.95	ug/l	95
25) 2-Butanone	4.73	43	2033	1.01	ug/l	96
29) Tetrahydrofuran	5.17	42	596	0.45	ug/l #	75
31) Cyclohexane	5.67	56	4717	1.15	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	16123	4.70	ug/l #	51
38) Carbon Tetrachloride	5.67	117	20631	6.04	ug/l #	16
51) 4-Methyl-2-Pentanone	8.66	43	1063	0.26	ug/l #	80
53) t-1,3-Dichloropropene	8.45	75	24	2.40	ug/l #	5
54) cis-1,3-Dichloropropene	9.04	75	53	3.22	ug/l #	70
60) Dibromochloromethane	9.34	129	22	3.77	ug/l #	11
65) Chlorobenzene	10.15	112	2942	0.40	ug/l	92
76) 1,2,3-Trichloropropane	11.14	75	85651	26.80	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	85651	82.76	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	367	0.52	ug/l #	1

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

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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: VX002816.D

Acq: 22 Jun 2018 04:26

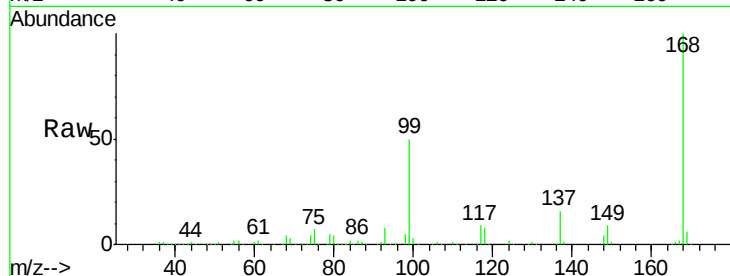
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 229084

Ion Ratio Lower Upper

168 100

99 50.2 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

80000

60000

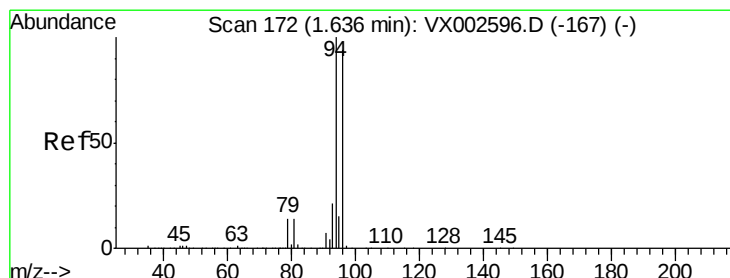
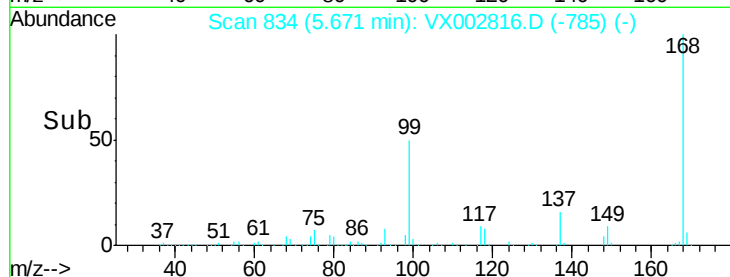
40000

20000

0

5.60 5.67 5.70 5.80

Time-->



#5

Bromomethane

Concen: 0.55 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002816.D

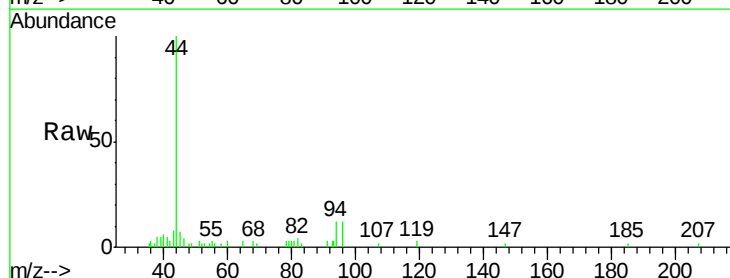
Acq: 22 Jun 2018 04:26

Tgt Ion: 94 Resp: 995

Ion Ratio Lower Upper

94 100

96 99.5 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

400

300

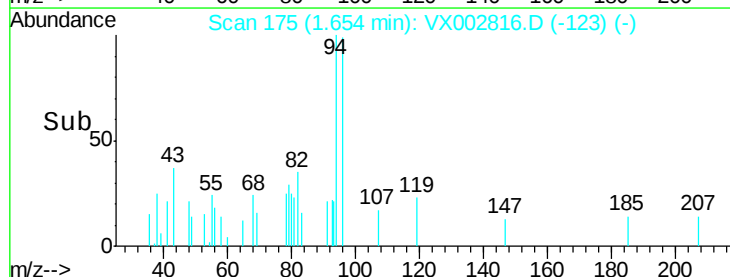
200

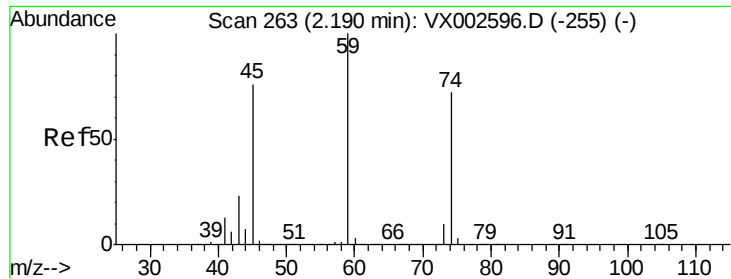
100

0

1.60 1.65 1.70 1.75

Time-->

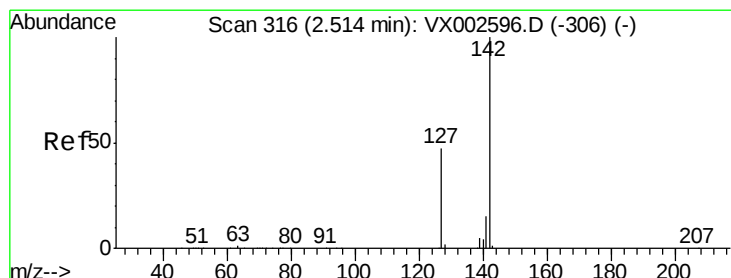
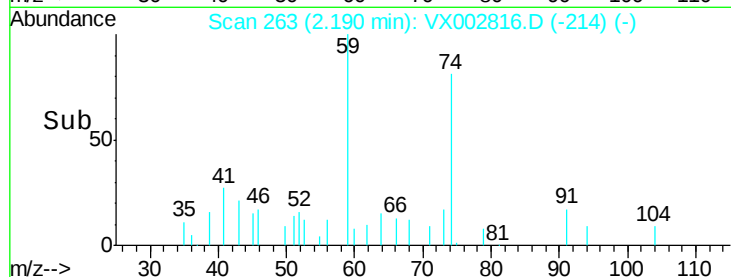
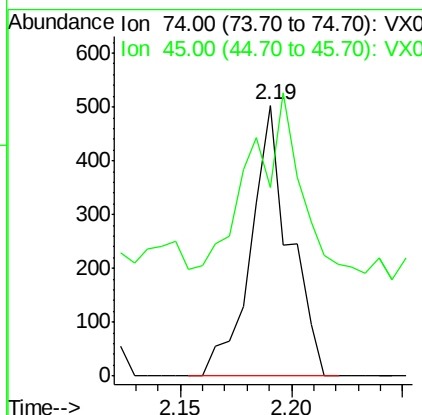
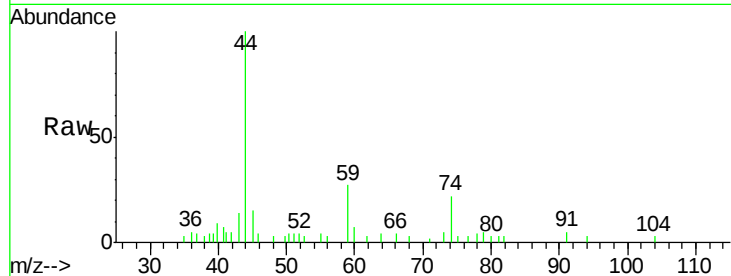




#8
Diethyl Ether
Concen: 0.33 ug/l
RT: 2.19 min Scan# 263
Delta R.T. -0.00 min
Lab File: VX002816.D
Acq: 22 Jun 2018 04:26

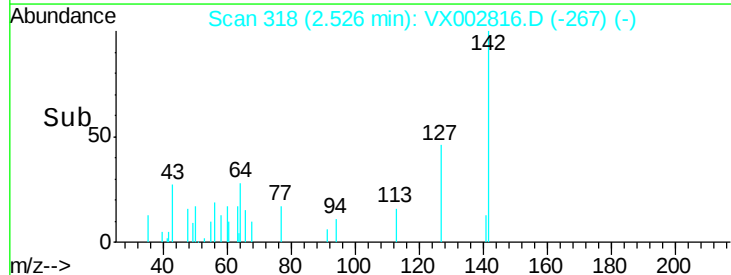
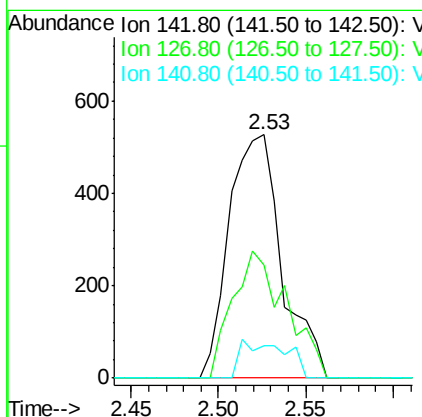
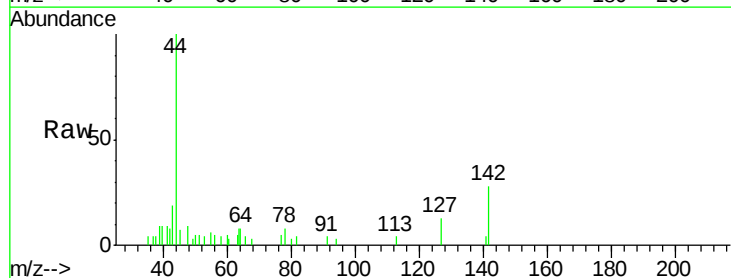
Instrument :
MSVOA_X
ClientSampled :

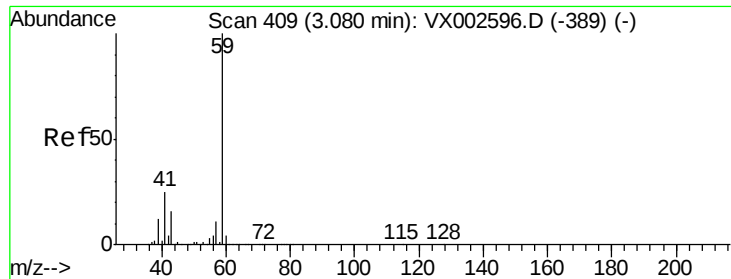
Tot Ion: 74 Resp: 607
Ion Ratio Lower Upper
74 100
45 90.0 53.1 159.4



#10
Methyl Iodide
Concen: 5.45 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX002816.D
Acq: 22 Jun 2018 04:26

Tgt Ion: 142 Resp: 1107
Ion Ratio Lower Upper
142 100
127 53.2 36.6 55.0
141 13.2 11.3 16.9

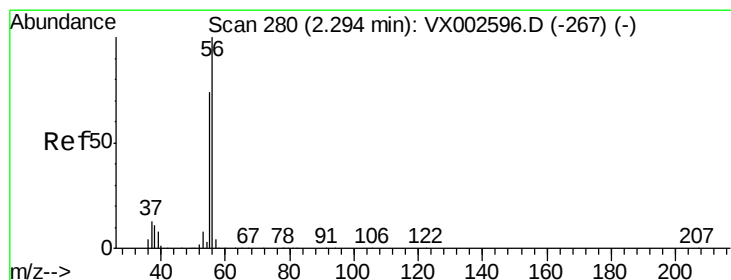
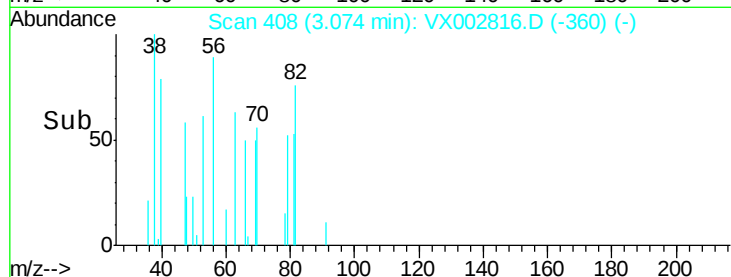
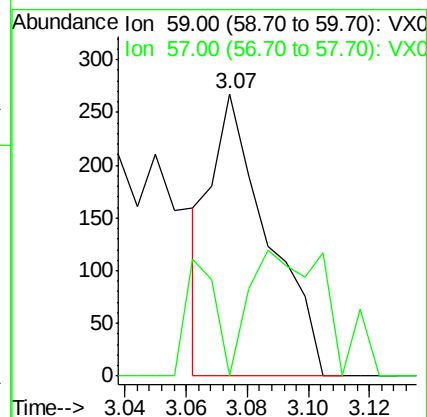
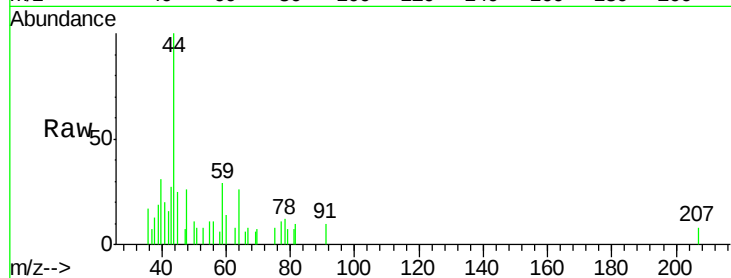




#11
Tert butvl alcohol
Concen: 0.48 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002816.D
Acq: 22 Jun 2018 04:26

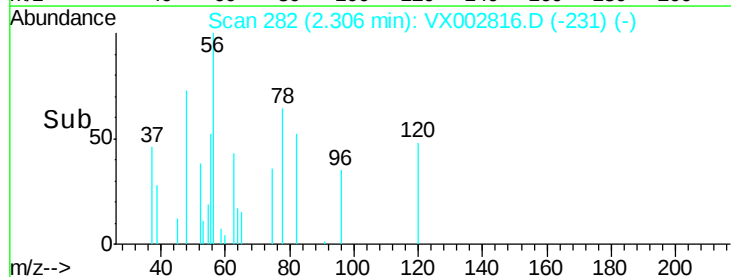
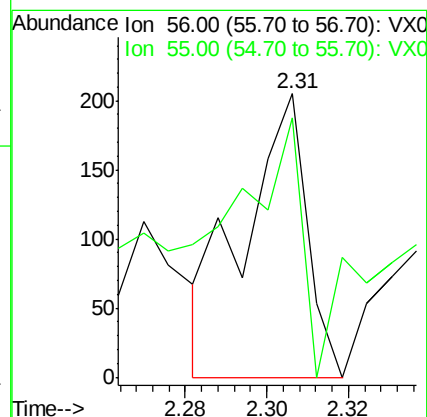
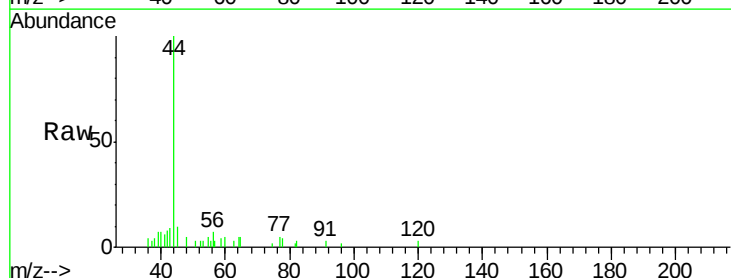
Instrument :
MSVOA_X
ClientSampled :

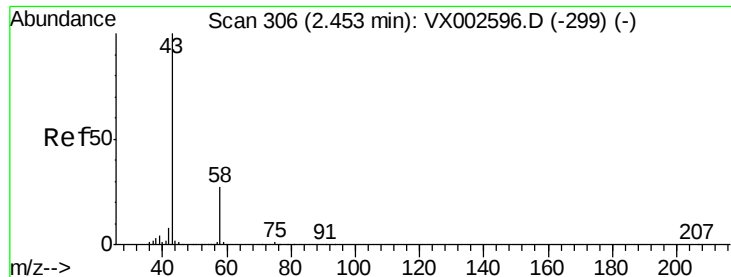
Tot Ion: 59 Resp: 346
Ion Ratio Lower Upper
59 100
57 61.6 8.2 12.2#



#13
Acrolein
Concen: 7.50 ug/l
RT: 2.31 min Scan# 282
Delta R.T. 0.01 min
Lab File: VX002816.D
Acq: 22 Jun 2018 04:26

Tgt Ion: 56 Resp: 221
Ion Ratio Lower Upper
56 100
55 62.0 57.0 85.4





#16

Acetone

Concen: 8.61 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002816.D

Acq: 22 Jun 2018 04:26

Instrument :

MSVOA_X

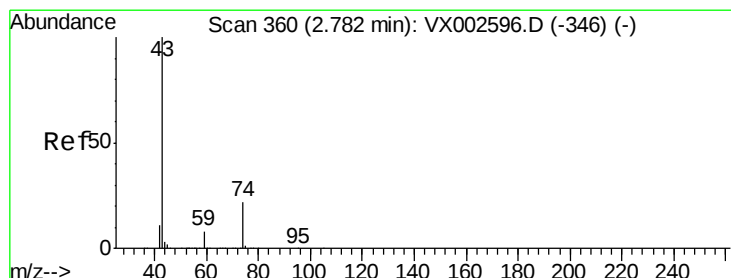
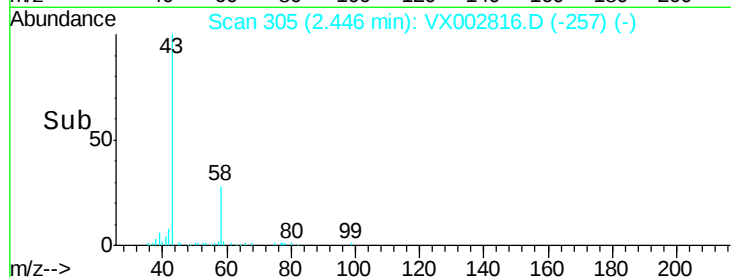
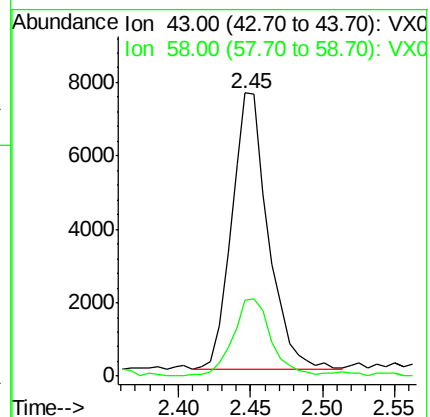
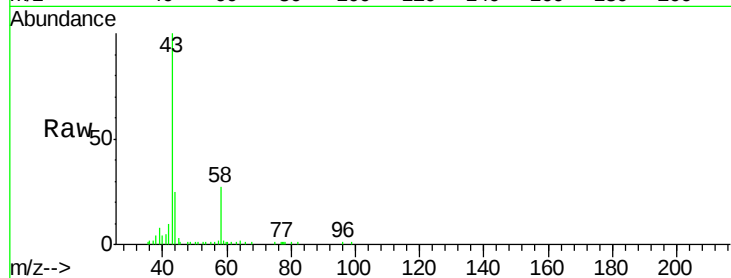
ClientSampleId :

Tot Ion: 43 Resp: 13217

Ion Ratio Lower Upper

43 100

58 26.7 22.1 33.1



#18

Methyl Acetate

Concen: 5.49 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002816.D

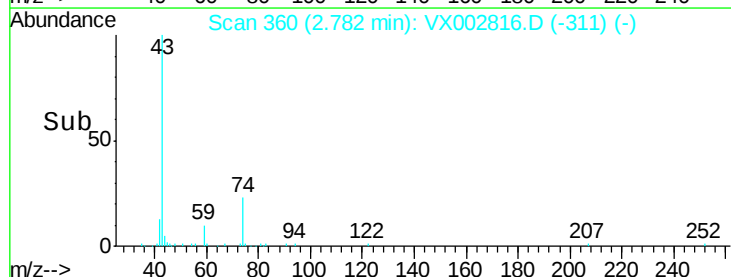
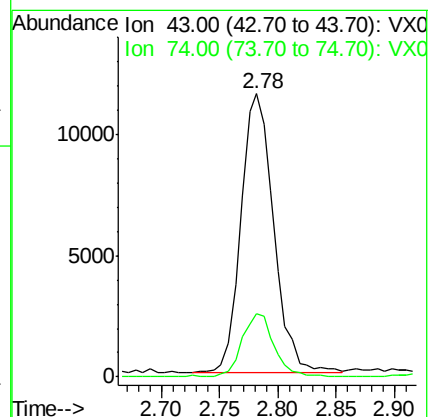
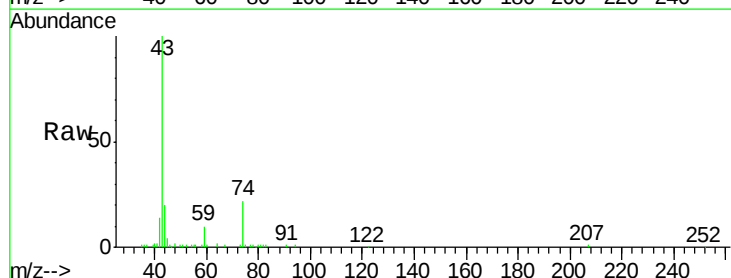
Acq: 22 Jun 2018 04:26

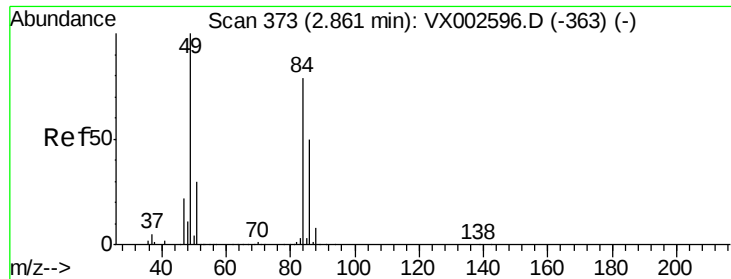
Tgt Ion: 43 Resp: 22457

Ion Ratio Lower Upper

43 100

74 22.3 16.7 25.1





#20

Methvlene Chloride

Concen: 1.95 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX002816.D

Acq: 22 Jun 2018 04:26

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 84 Resp: 6150

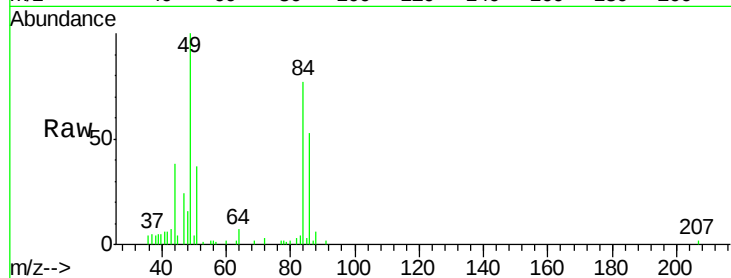
Ion Ratio Lower Upper

84 100

49 129.2 107.8 161.6

51 45.4 32.8 49.2

86 68.2 52.5 78.7

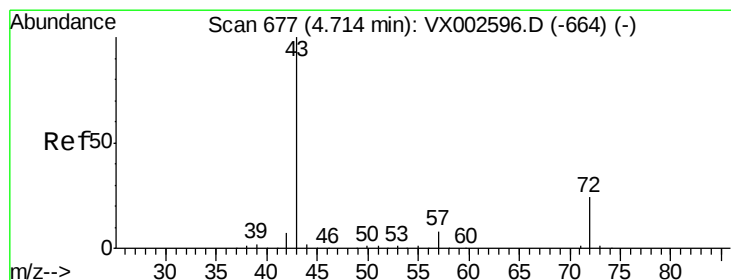
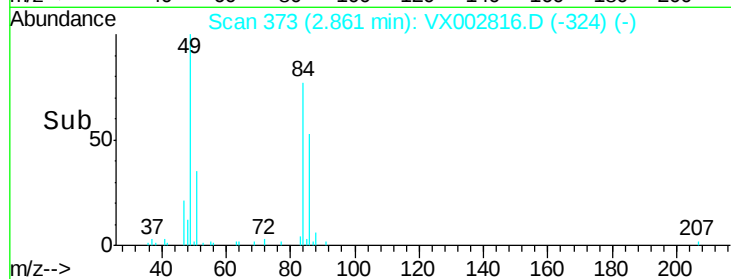
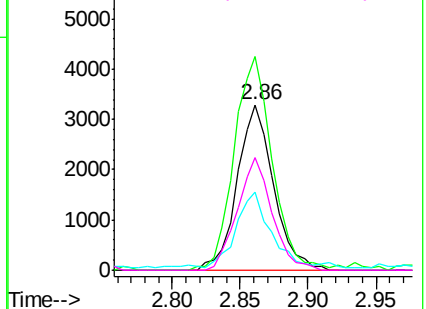


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 1.01 ug/l

RT: 4.73 min Scan# 680

Delta R.T. 0.02 min

Lab File: VX002816.D

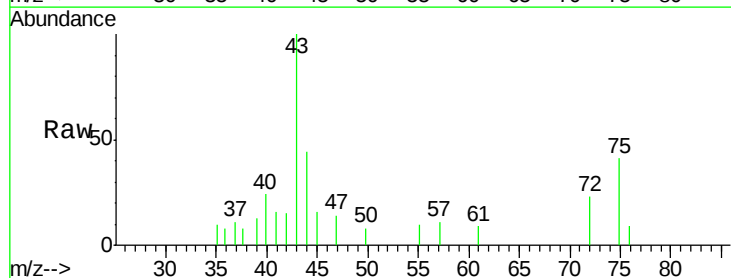
Acq: 22 Jun 2018 04:26

Tgt Ion: 43 Resp: 2033

Ion Ratio Lower Upper

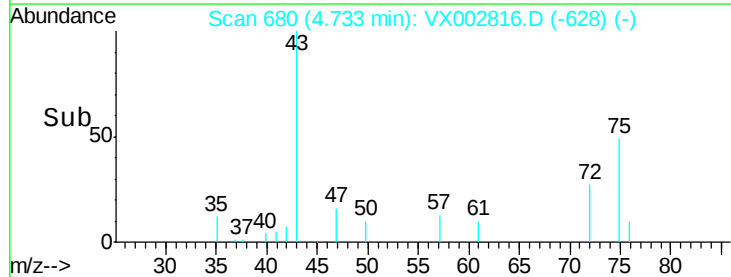
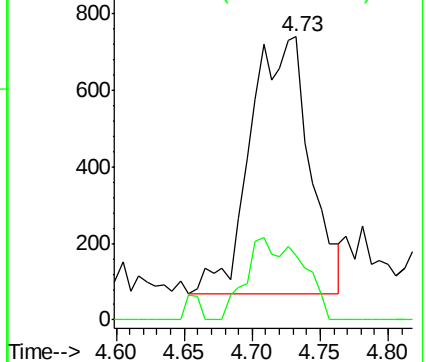
43 100

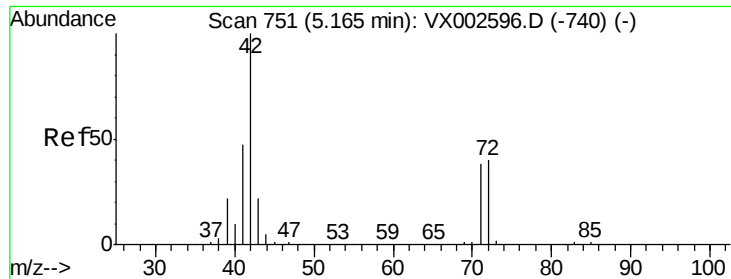
72 25.3 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

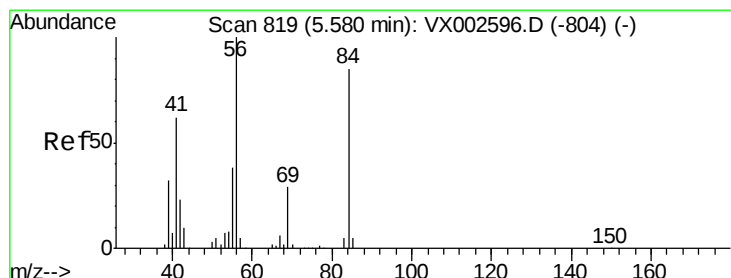
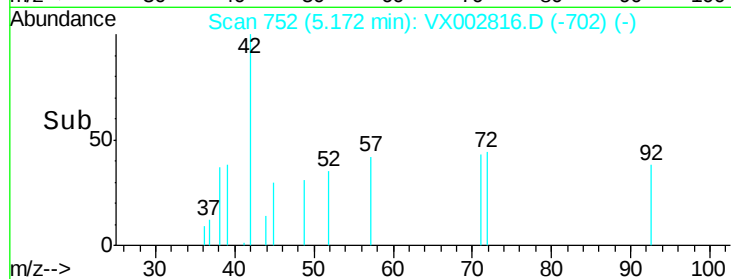
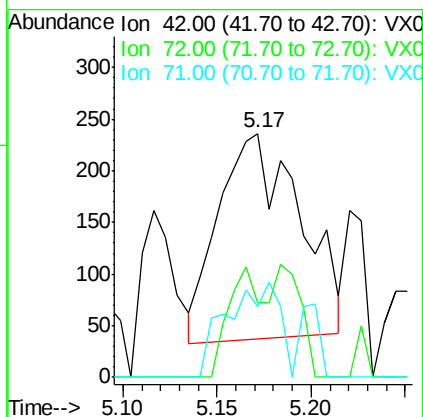
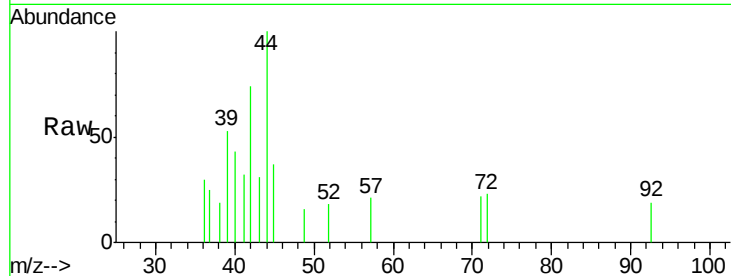




#29
Tetrahydrofuran
Concen: 0.45 ug/l
RT: 5.17 min Scan# 752
Delta R.T. 0.01 min
Lab File: VX002816.D
Acq: 22 Jun 2018 04:26

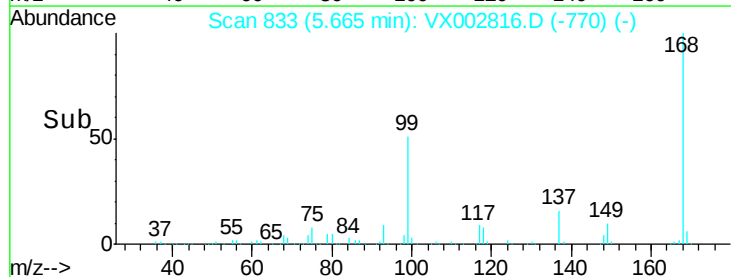
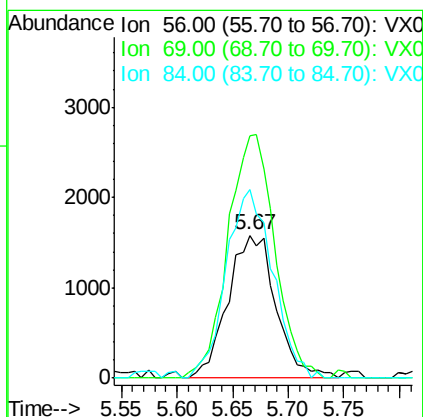
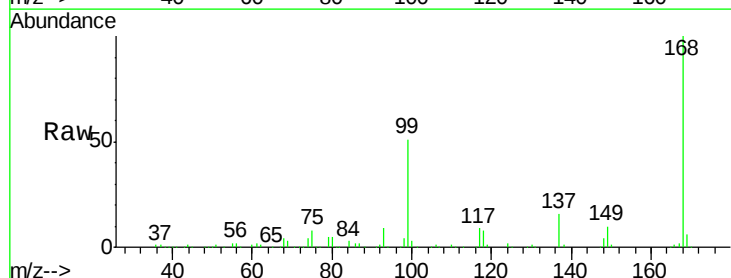
Instrument :
MSVOA_X
ClientSampled :

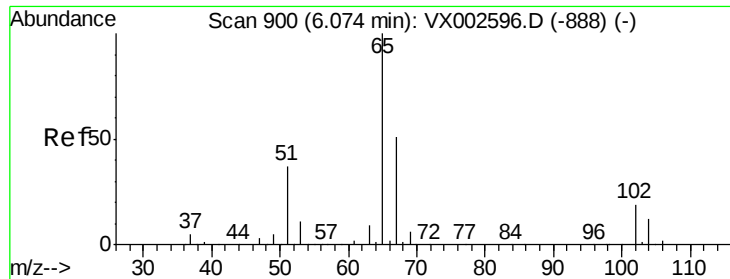
Tot Ion: 42 Resp: 596
Ion Ratio Lower Upper
42 100
72 16.9 32.0 48.0#
71 30.0 30.1 45.1#



#31
Cyclohexane
Concen: 1.15 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX002816.D
Acq: 22 Jun 2018 04:26

Tgt Ion: 56 Resp: 4717
Ion Ratio Lower Upper
56 100
69 165.9 23.7 35.5#
84 131.8 64.1 96.1#





#33

1,2-Dichloroethane-d4

Concen: 45.30 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002816.D

Acq: 22 Jun 2018 04:26

Instrument :

MSVOA_X

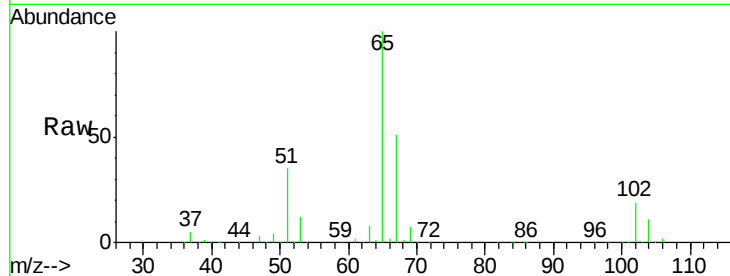
ClientSampleId :

Tot Ion: 65 Resp: 157687

Ion Ratio Lower Upper

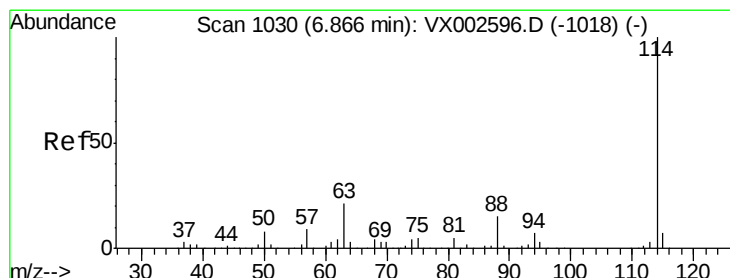
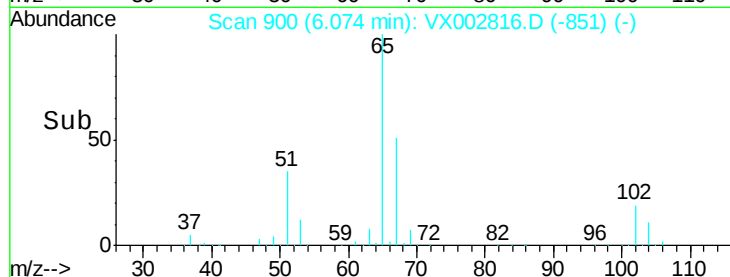
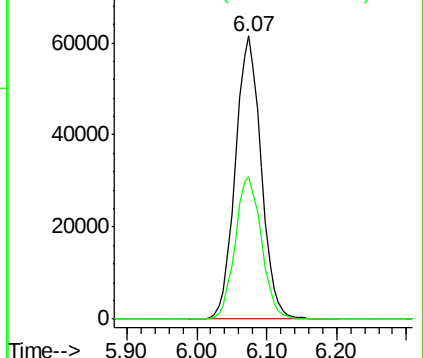
65 100

67 51.2 0.0 102.6



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: VX002816.D

Acq: 22 Jun 2018 04:26

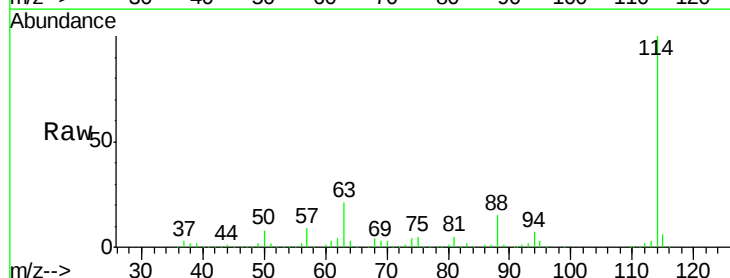
Tgt Ion: 114 Resp: 323101

Ion Ratio Lower Upper

114 100

63 20.6 0.0 41.4

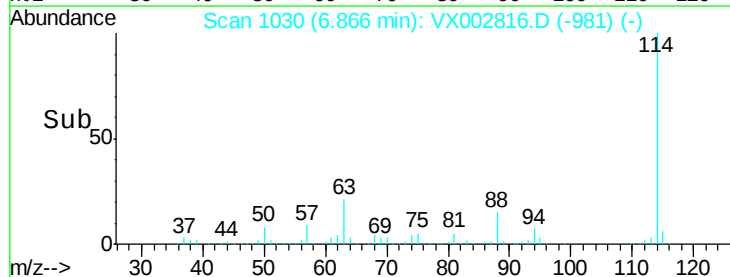
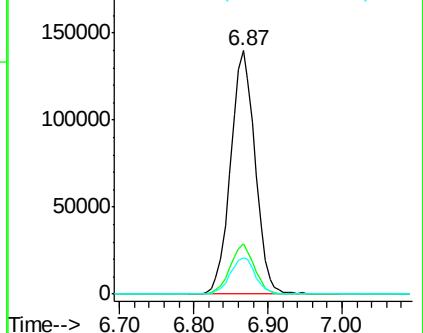
88 14.7 0.0 30.0

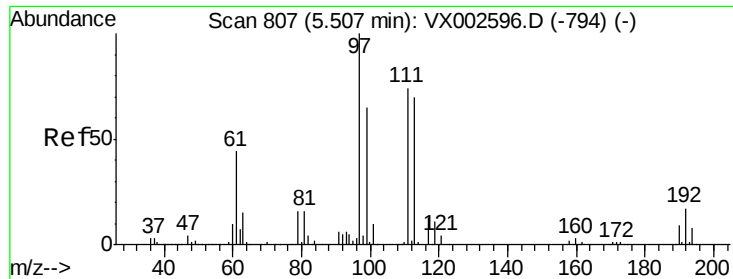


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.43 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002816.D

Acq: 22 Jun 2018 04:26

Instrument :

MSVOA_X

ClientSampled :

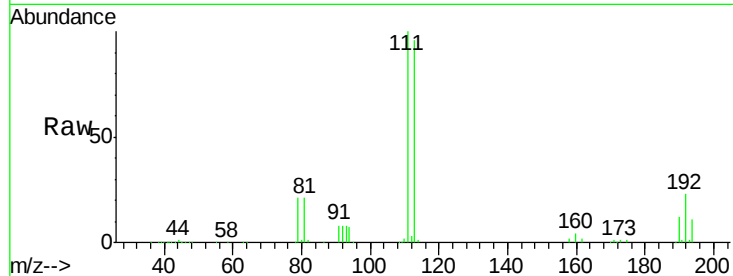
Tot Ion:113 Resp: 124886

Ion Ratio Lower Upper

113 100

111 101.2 81.4 122.0

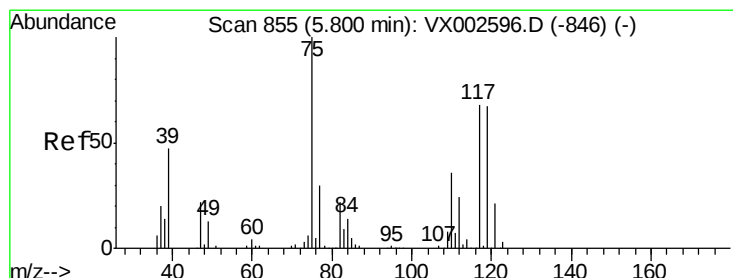
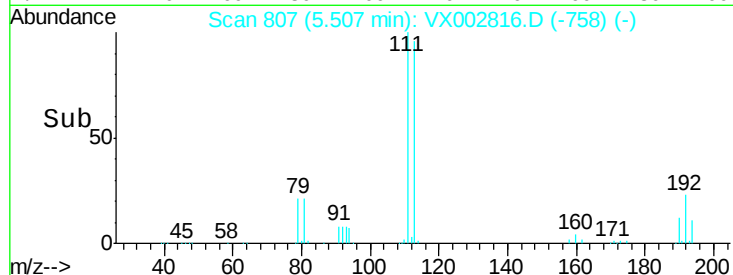
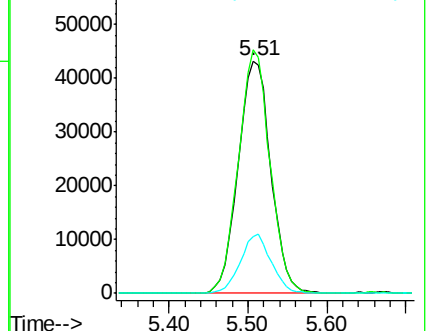
192 24.1 19.1 28.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.70 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002816.D

Acq: 22 Jun 2018 04:26

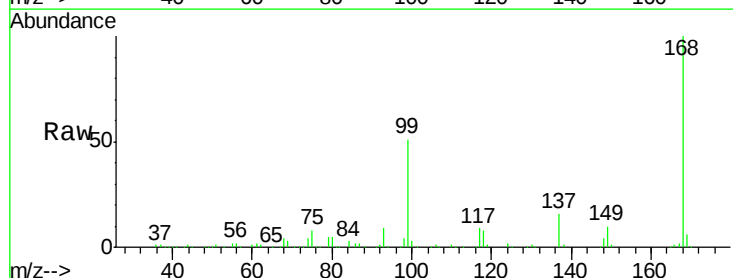
Tgt Ion: 75 Resp: 16123

Ion Ratio Lower Upper

75 100

110 10.2 18.1 54.4#

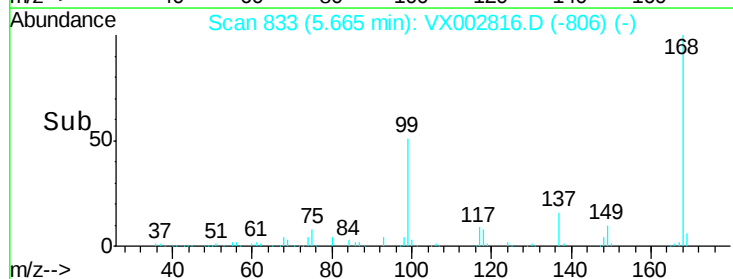
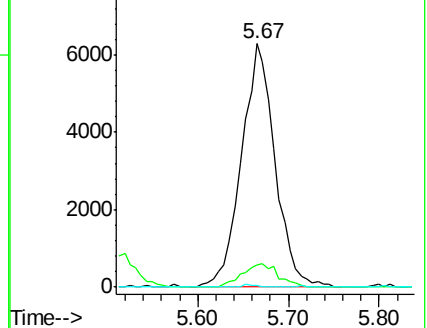
77 0.4 24.3 36.5#

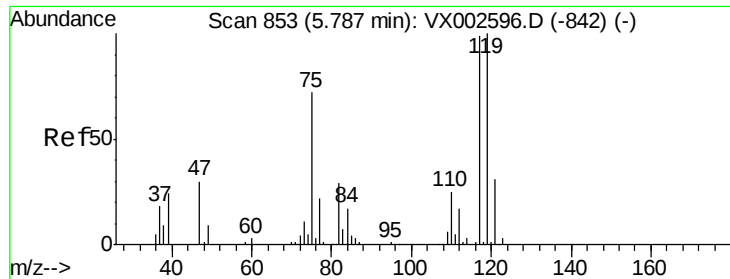


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

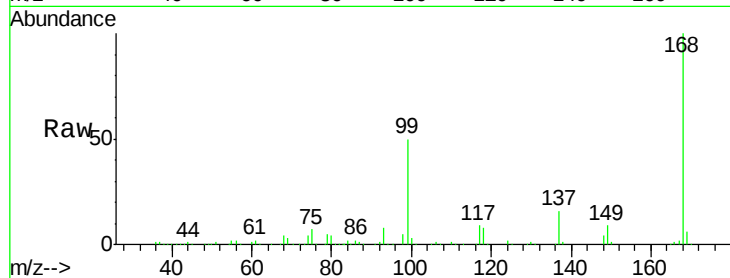




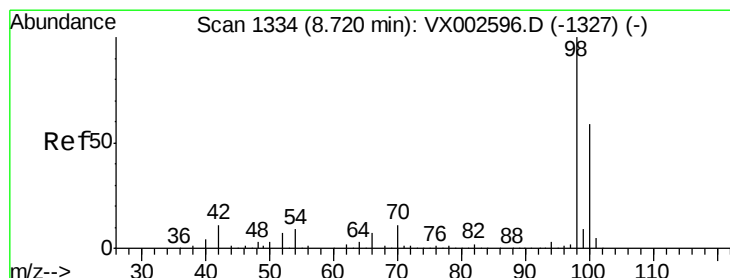
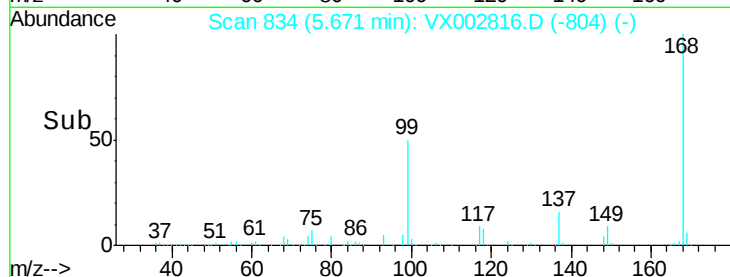
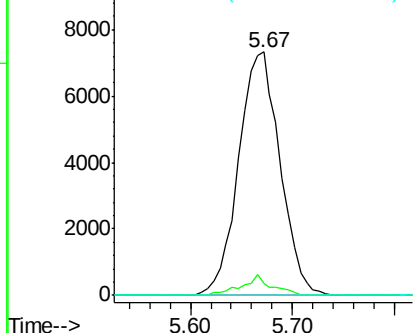
#38
Carbon Tetrachloride
Concen: 6.04 ug/l
RT: 5.67 min Scan# 834
Delta R.T. -0.12 min
Lab File: VX002816.D
Acq: 22 Jun 2018 04:26

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 20631
Ion Ratio Lower Upper
117 100
119 5.1 77.4 116.0#
121 0.0 24.4 36.6#

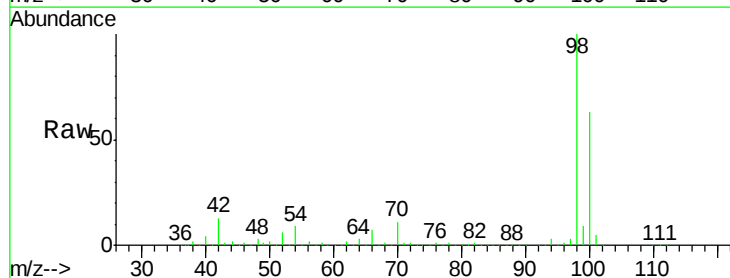


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

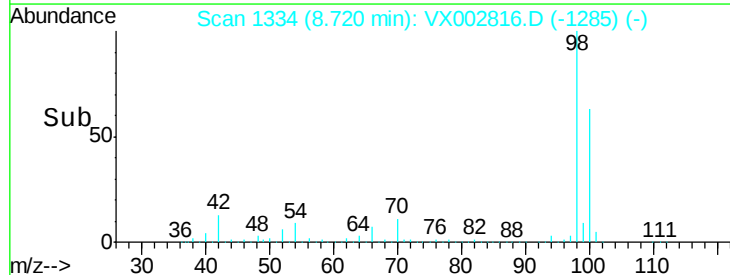
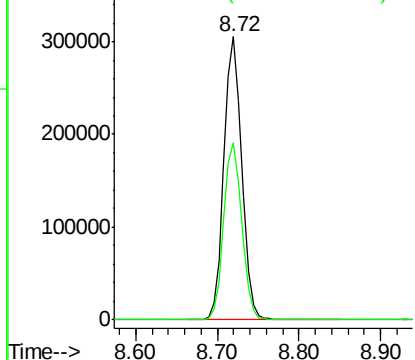


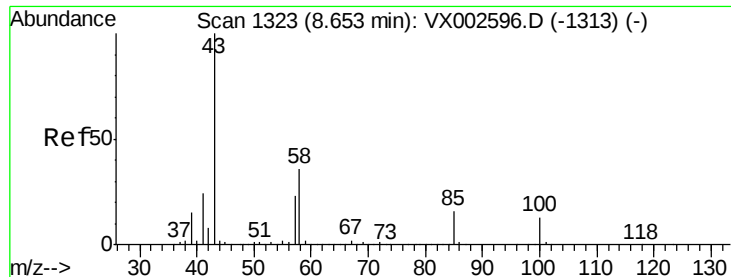
#50
Toluene-d8
Concen: 47.33 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002816.D
Acq: 22 Jun 2018 04:26

Tgt Ion: 98 Resp: 463451
Ion Ratio Lower Upper
98 100
100 63.2 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.26 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. 0.01 min

Lab File: VX002816.D

Acq: 22 Jun 2018 04:26

Instrument :

MSVOA_X

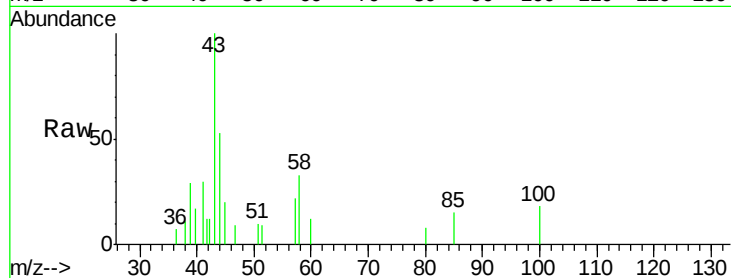
ClientSampleId :

Tot Ion: 43 Resp: 1063

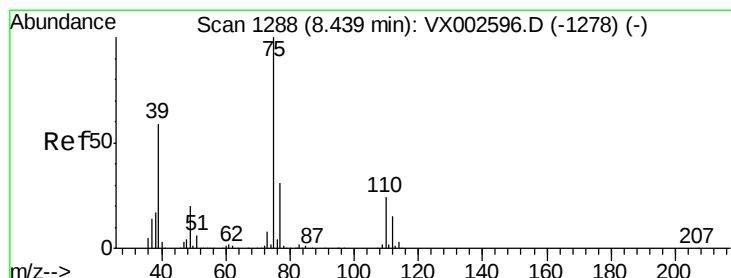
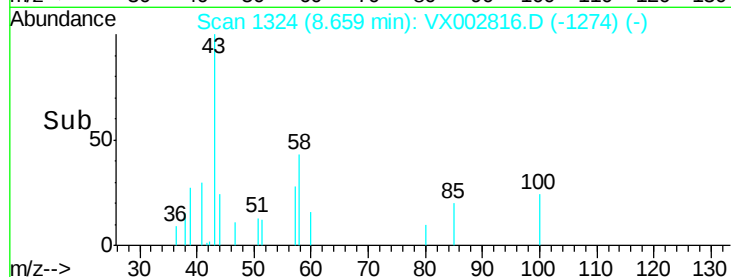
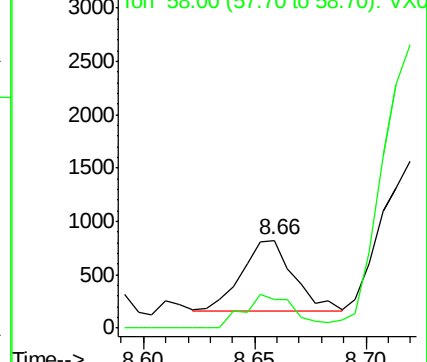
Ion Ratio Lower Upper

43 100

58 47.6 28.6 42.8#



Abundance Ion 43.00 (42.70 to 43.70): VX002816.D (-1274) (-)



#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.45 min Scan# 1290

Delta R.T. 0.01 min

Lab File: VX002816.D

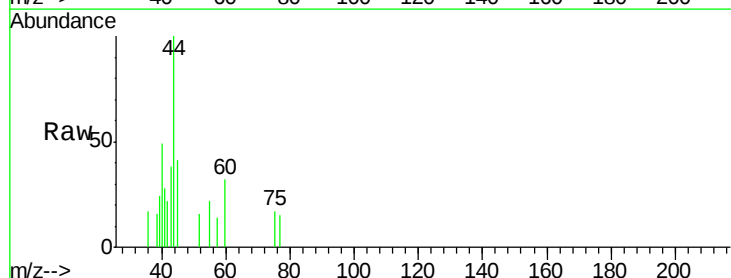
Acq: 22 Jun 2018 04:26

Tgt Ion: 75 Resp: 24

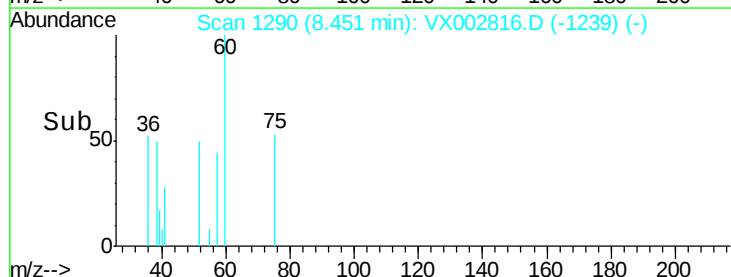
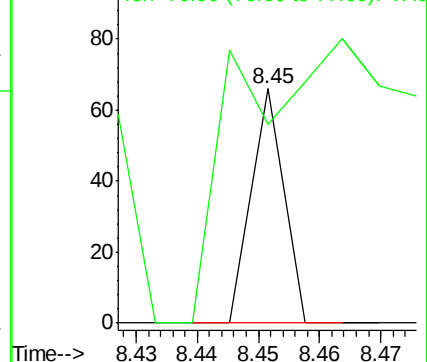
Ion Ratio Lower Upper

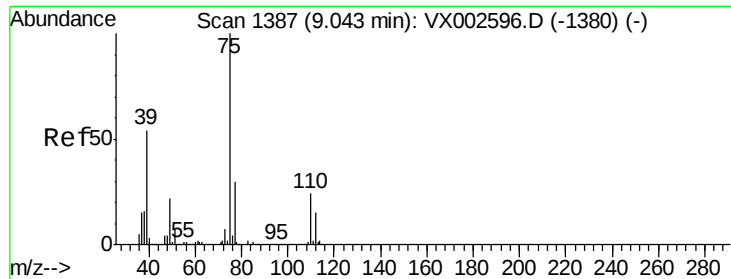
75 100

77 84.8 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX002816.D (-1239) (-)



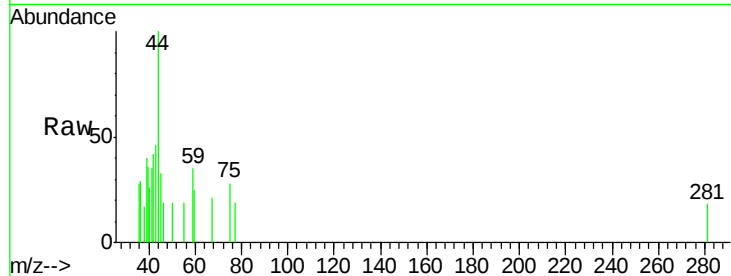


#54

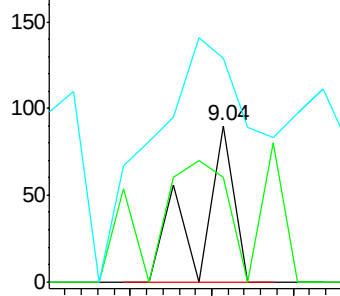
cis-1,3-Dichloropropene
Concen: 3.22 ug/l
RT: 9.04 min Scan# 1387
Delta R.T. 0.00 min
Lab File: VX002816.D
Acq: 22 Jun 2018 04:26

Instrument :
MSVOA_X
ClientSampled :

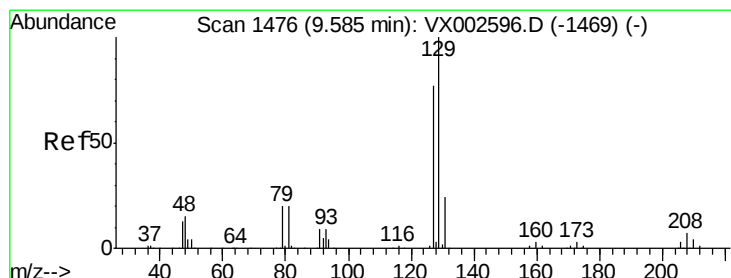
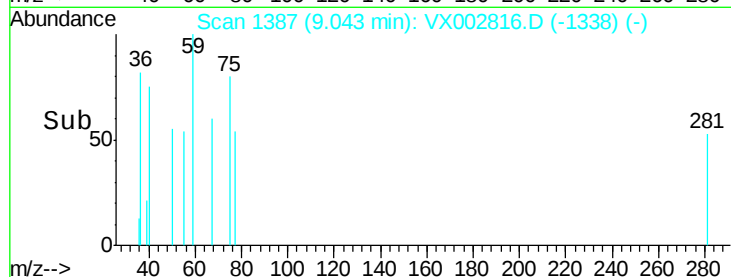
Tot Ion: 75 Resp: 53
Ion Ratio Lower Upper
75 100
77 6.7 24.8 37.2#
39 68.9 42.4 63.6#



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



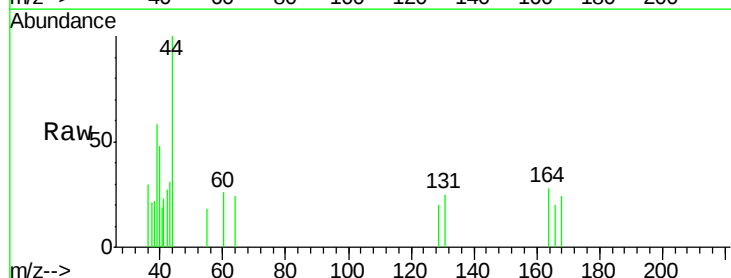
Time-->



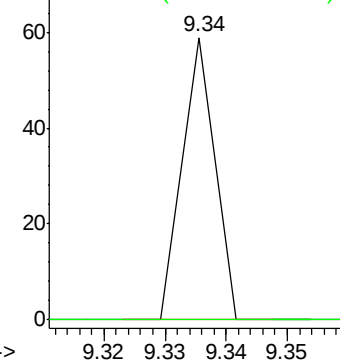
#60

Dibromochloromethane
Concen: 3.77 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.25 min
Lab File: VX002816.D
Acq: 22 Jun 2018 04:26

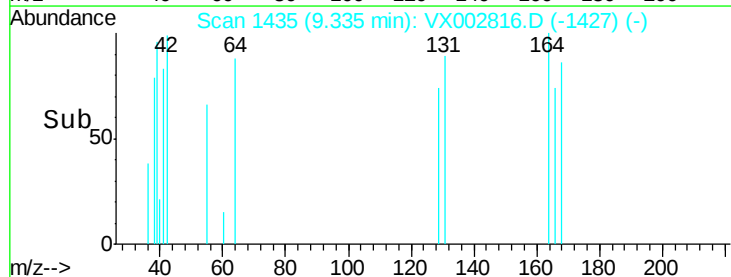
Tgt Ion: 129 Resp: 22
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#

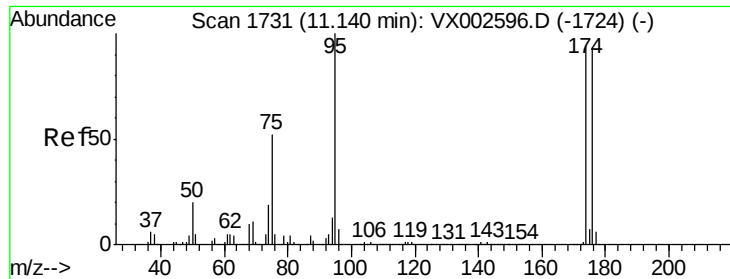


Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V



Time-->

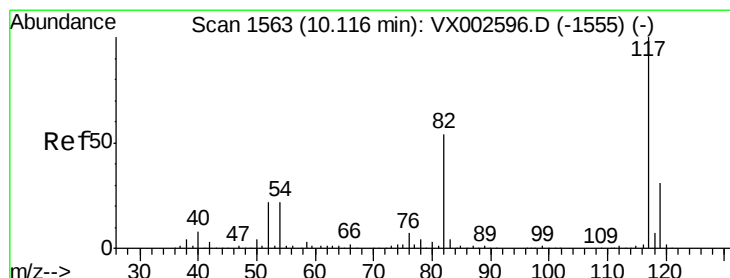
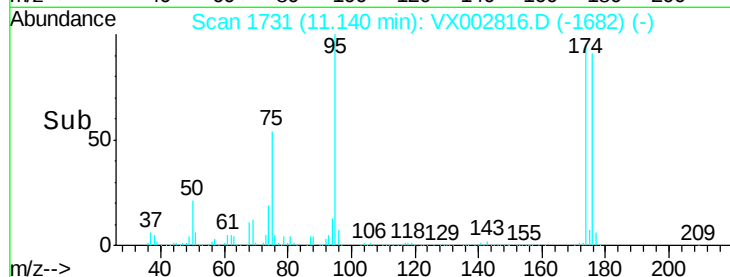
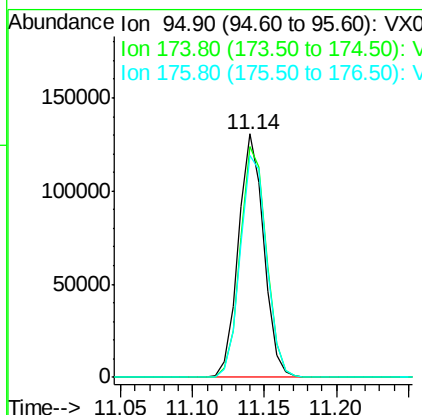
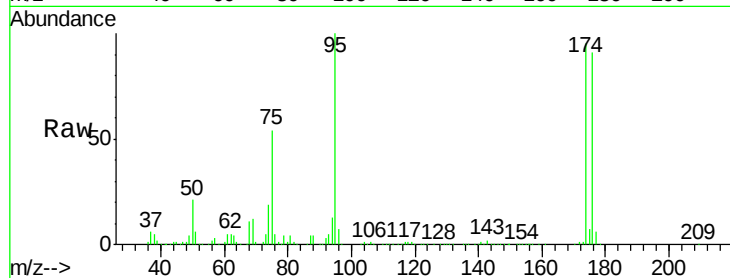




#62
4-Bromofluorobenzene
Concen: 43.22 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002816.D
Acq: 22 Jun 2018 04:26

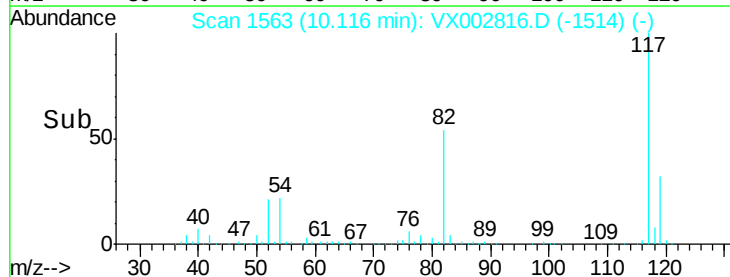
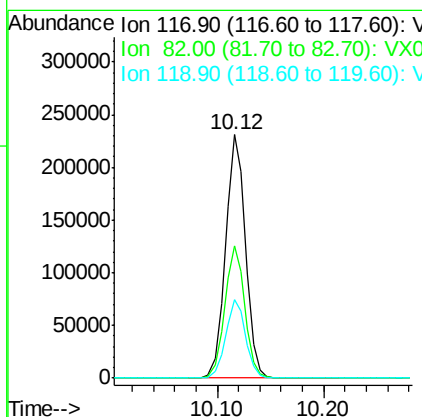
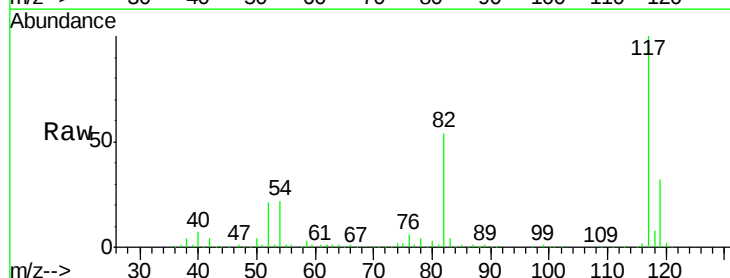
Instrument :
MSVOA_X
ClientSampleId :

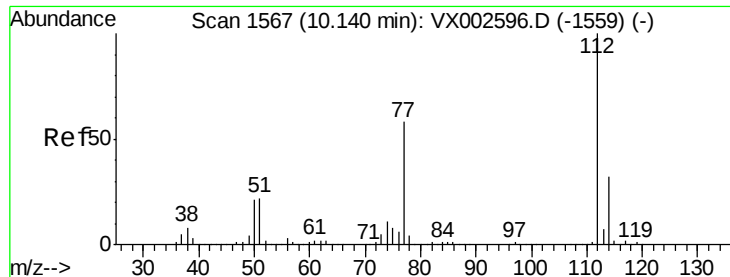
Tot Ion: 95 Resp: 160365
Ion Ratio Lower Upper
95 100
174 97.0 0.0 187.4
176 94.4 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002816.D
Acq: 22 Jun 2018 04:26

Tgt Ion: 117 Resp: 302903
Ion Ratio Lower Upper
117 100
82 54.2 45.0 67.4
119 32.1 25.8 38.6





#65

Chlorobenzene

Concen: 0.40 ug/l

RT: 10.15 min Scan# 1568

Delta R.T. 0.01 min

Lab File: VX002816.D

Acq: 22 Jun 2018 04:26

Instrument :

MSVOA_X

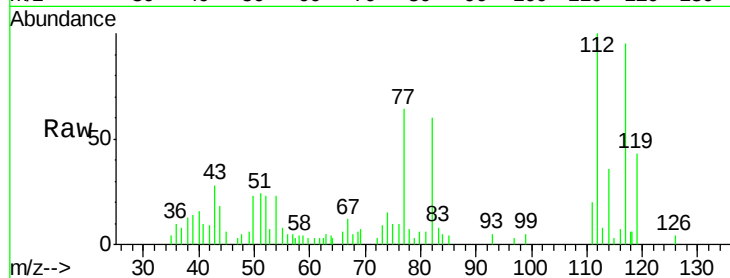
ClientSampleId :

Tot Ion:112 Resp: 2942

Ion Ratio Lower Upper

112 100

114 36.3 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

2000

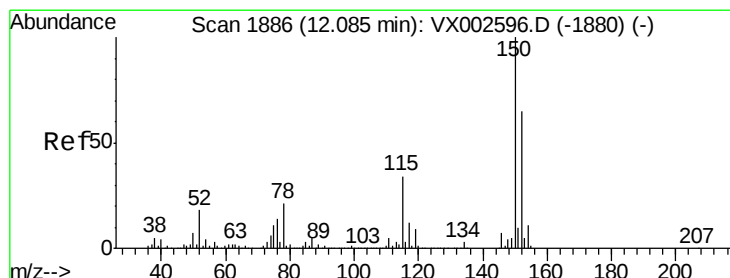
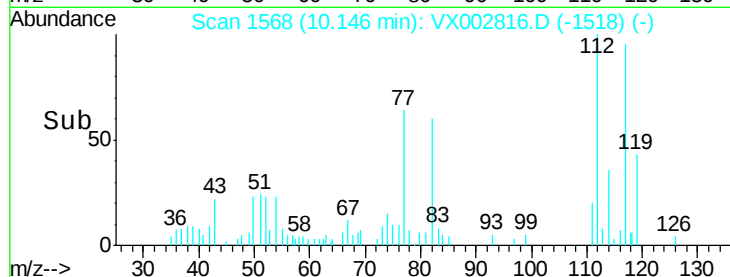
1500

1000

500

0

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002816.D

Acq: 22 Jun 2018 04:26

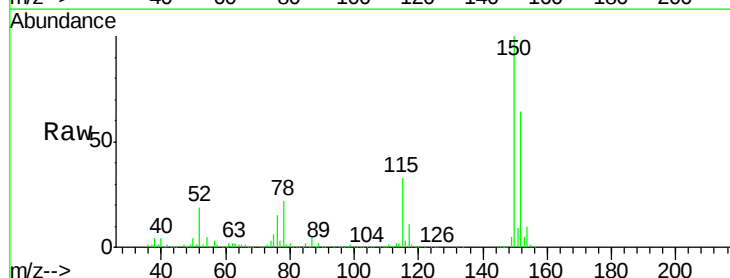
Tgt Ion:152 Resp: 169363

Ion Ratio Lower Upper

152 100

115 54.2 40.1 120.2

150 155.5 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

250000

200000

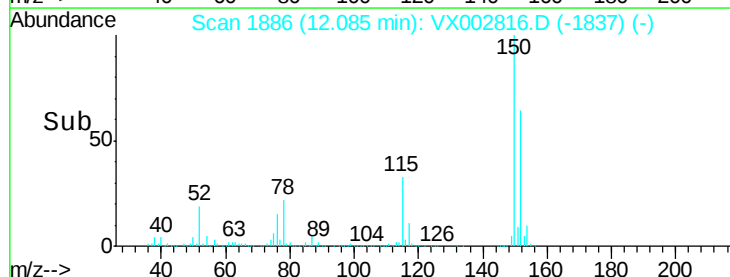
150000

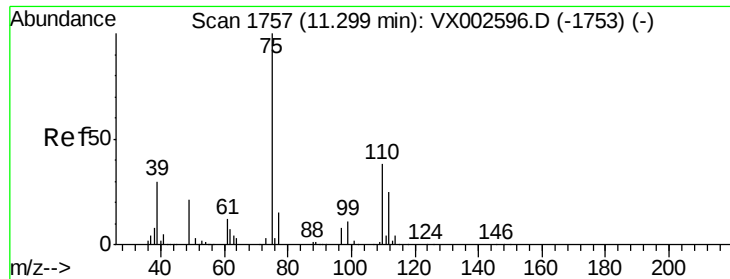
100000

50000

0

Time-->





#76

1,2,3-Trichloropropane

Concen: 26.80 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002816.D

Acq: 22 Jun 2018 04:26

Instrument :

MSVOA_X

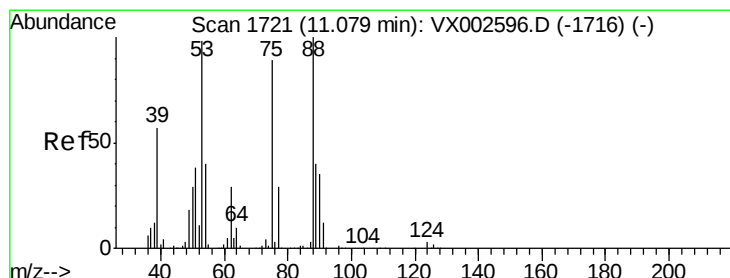
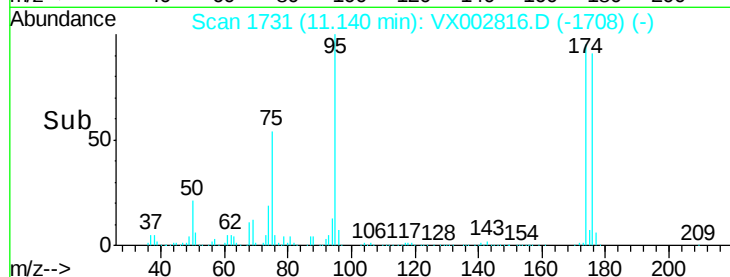
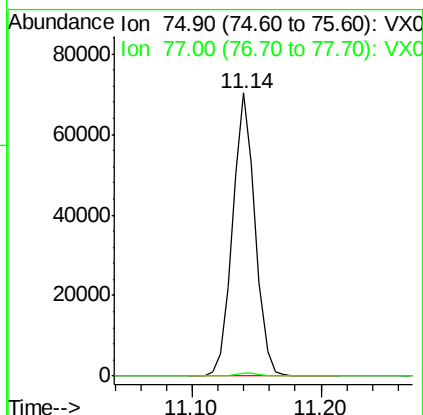
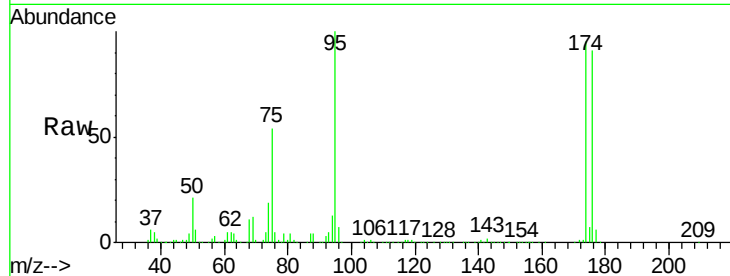
ClientSampleId :

Tot Ion: 75 Resp: 85651

Ion Ratio Lower Upper

75 100

77 1.3 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 82.76 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002816.D

Acq: 22 Jun 2018 04:26

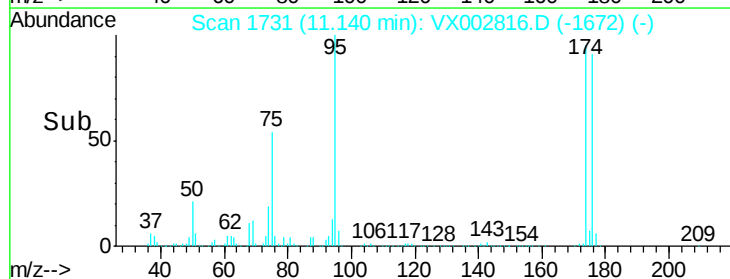
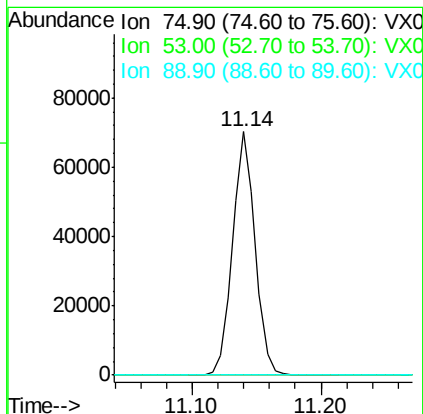
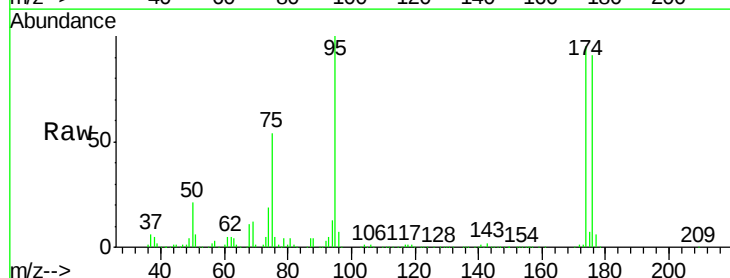
Tgt Ion: 75 Resp: 85651

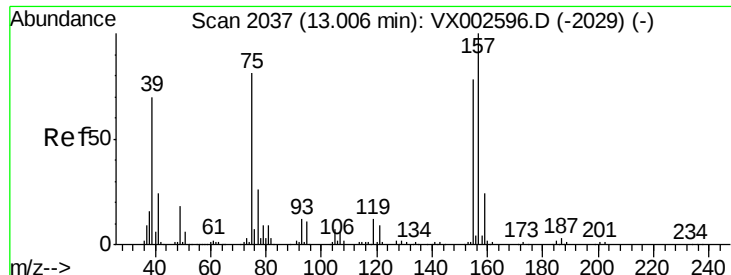
Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.52 ug/l

RT: 12.98 min Scan# 2032

Delta R.T. -0.03 min

Lab File: VX002816.D

Acq: 22 Jun 2018 04:26

Instrument :

MSVOA_X

ClientSampleId :

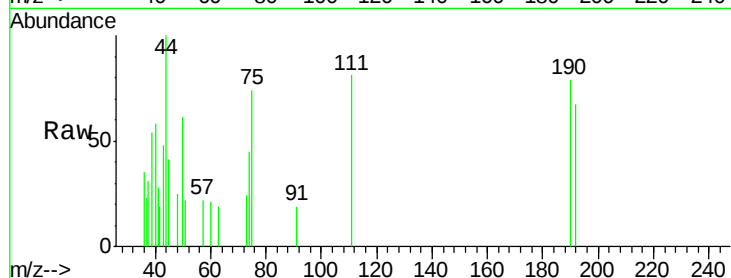
Tot Ion: 75 Resp: 367

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): VX002816.D (-1988) (-)

Ion 154.80 (154.50 to 155.50): VX002816.D (-1988) (-)

Ion 156.80 (156.50 to 157.50): VX002816.D (-1988) (-)

