

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062718\
 Data File : VX002963.D
 Acq On : 28 Jun 2018 03:59
 Operator : JC/MD
 Sample : J3718-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 28 06:51:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	271042	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	380761	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	355909	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	204692	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	184373	49.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.42%	
35) Dibromofluoromethane	5.51	113	147563	48.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.88%	
50) Toluene-d8	8.72	98	533560	48.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.92%	
62) 4-Bromofluorobenzene	11.14	95	192816	45.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.82%	

Target Compounds

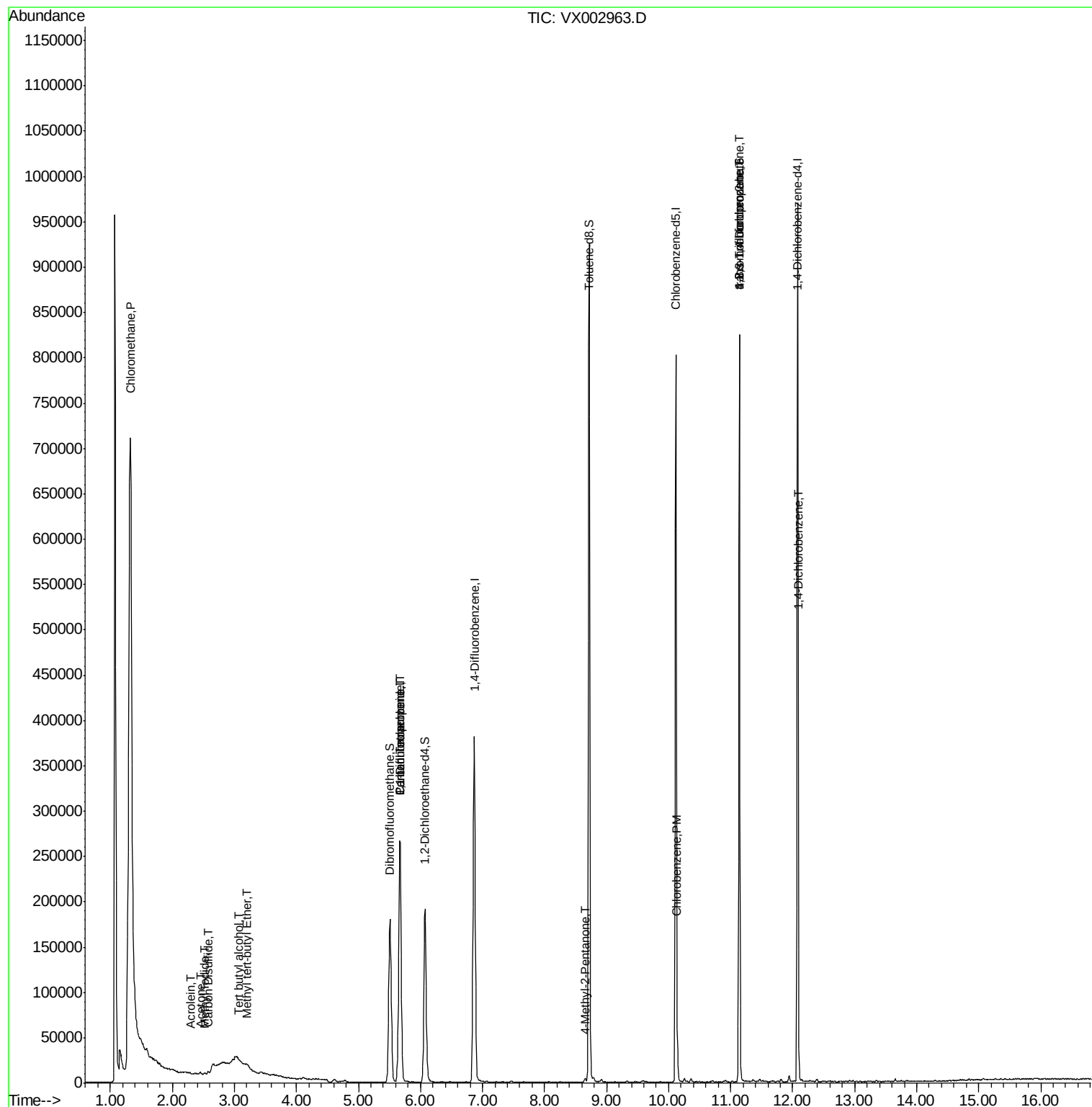
						Qvalue
2) Dichlorodifluoromethane	1.21	85	50	Below Cal	#	43
3) Chloromethane	1.32	50	44439	16.90	ug/l #	45
5) Bromomethane	1.65	94	1425	Below Cal		87
6) Chloroethane	1.93	64	1610	Below Cal	#	43
10) Methyl Iodide	2.52	142	2512	6.95	ug/l	98
11) Tert butyl alcohol	3.07	59	835	1.12	ug/l #	78
13) Acrolein	2.30	56	138	4.56	ug/l #	1
16) Acetone	2.45	43	2570	1.66	ug/l	94
17) Carbon Disulfide	2.57	76	5889	0.83	ug/l #	94
19) Methyl tert-butyl Ether	3.20	73	2185	0.23	ug/l #	88
36) 1,1-Dichloropropene	5.67	75	18200	4.36	ug/l #	51
38) Carbon Tetrachloride	5.67	117	24822	5.42	ug/l #	16
51) 4-Methyl-2-Pentanone	8.65	43	2272	0.48	ug/l	91
65) Chlorobenzene	10.14	112	13404	1.48	ug/l	99
76) 1,2,3-Trichloropropane	11.14	75	99795	26.92	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	99795	76.20	ug/l #	7
88) 1,4-Dichlorobenzene	12.10	146	3667	0.50	ug/l #	60

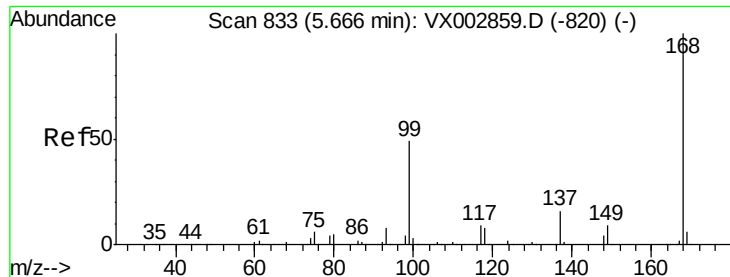
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX002963.D

Acq: 28 Jun 2018 03:59

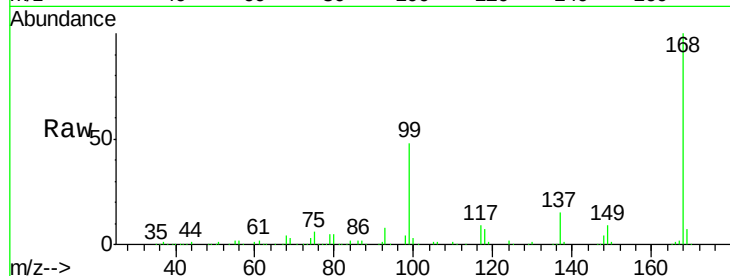
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 271042

Ion Ratio Lower Upper

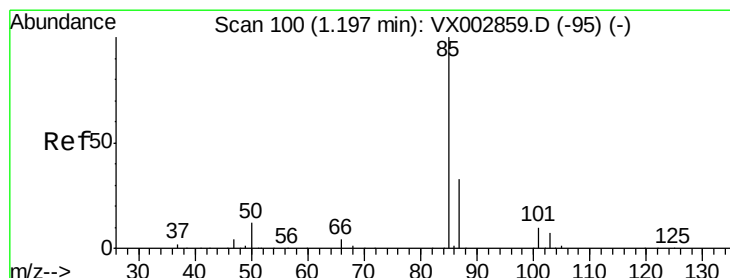
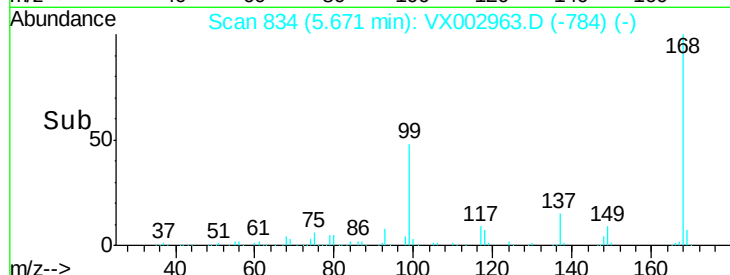
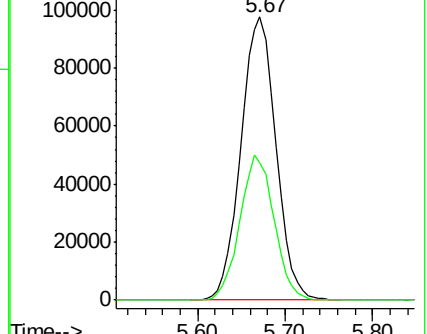
168 100

99 48.3 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.21 min Scan# 102

Delta R.T. 0.01 min

Lab File: VX002963.D

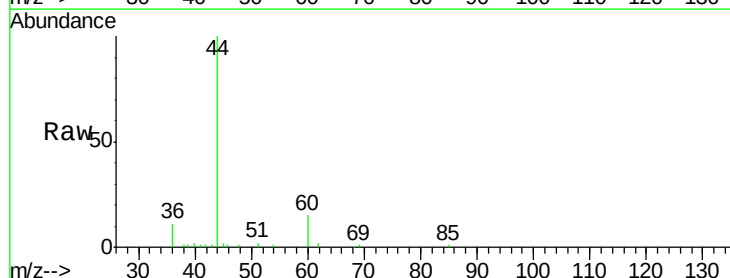
Acq: 28 Jun 2018 03:59

Tgt Ion: 85 Resp: 50

Ion Ratio Lower Upper

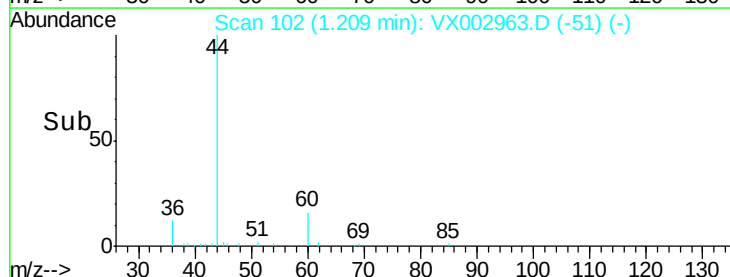
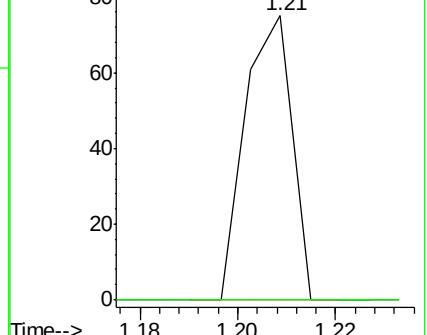
85 100

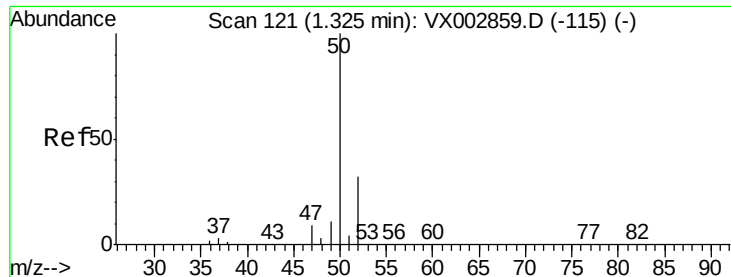
87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 16.90 ua/l

RT: 1.32 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX002963.D

Acq: 28 Jun 2018 03:59

Instrument :

MSVOA_X

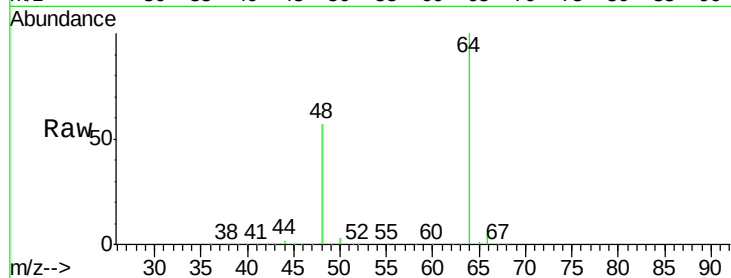
ClientSampleId :

Tot Ion: 50 Resp: 44439

Ion Ratio Lower Upper

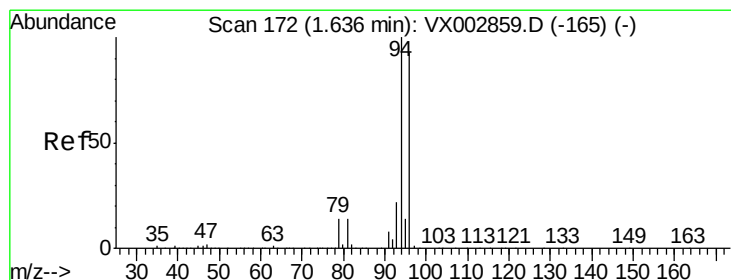
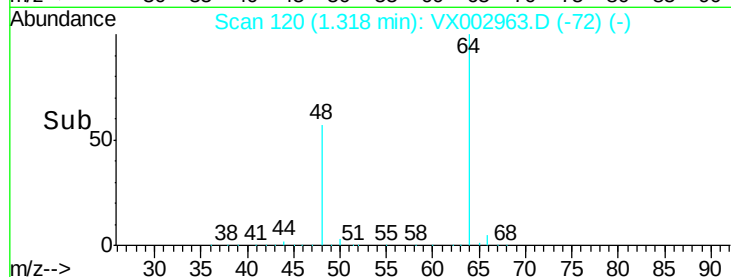
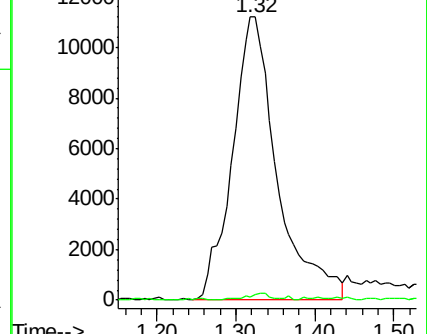
50 100

52 1.2 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002963.D

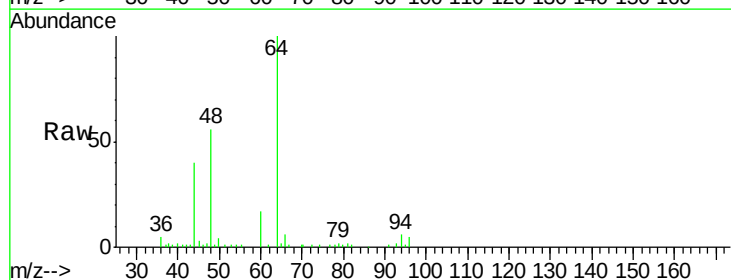
Acq: 28 Jun 2018 03:59

Tgt Ion: 94 Resp: 1425

Ion Ratio Lower Upper

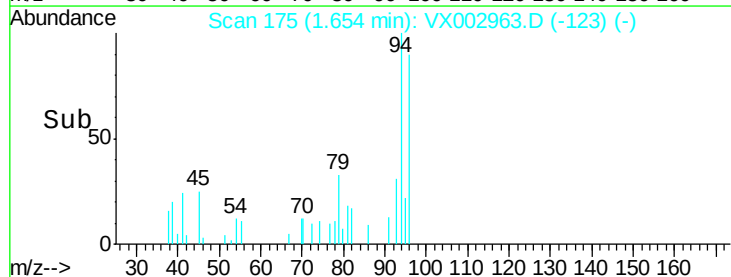
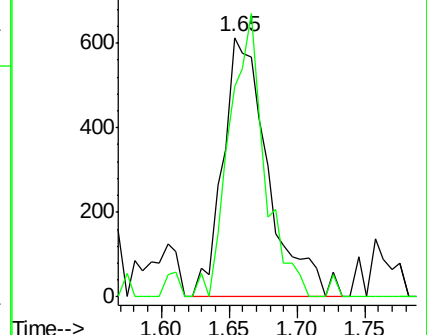
94 100

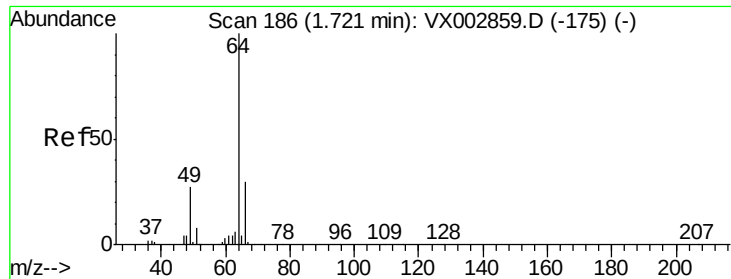
96 81.1 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.93 min Scan# 221

Delta R.T. 0.21 min

Lab File: VX002963.D

Acq: 28 Jun 2018 03:59

Instrument :

MSVOA_X

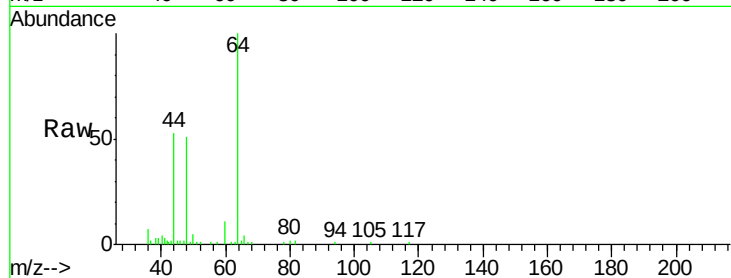
ClientSampleId :

Tot Ion: 64 Resp: 1610

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.93

6000

5000

4000

3000

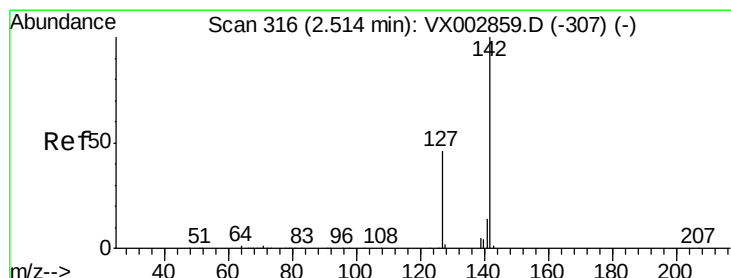
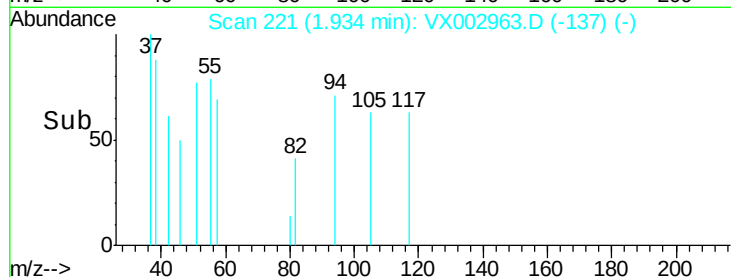
2000

1000

0

1.92 1.94 1.96 1.98

Time-->



#10

Methyl Iodide

Concen: 6.95 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002963.D

Acq: 28 Jun 2018 03:59

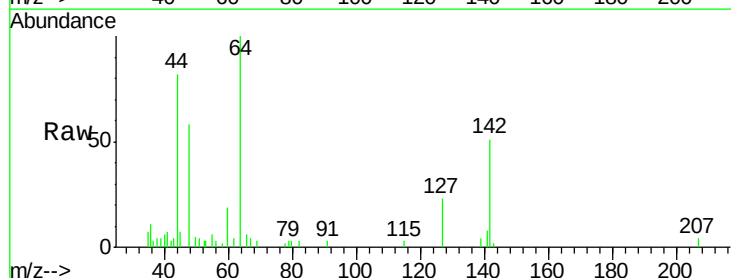
Tgt Ion: 142 Resp: 2512

Ion Ratio Lower Upper

142 100

127 45.9 36.6 55.0

141 16.8 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

1500

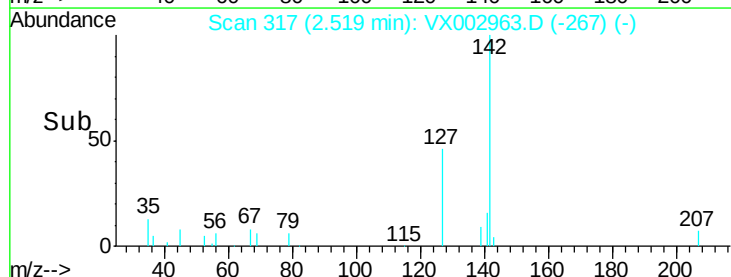
1000

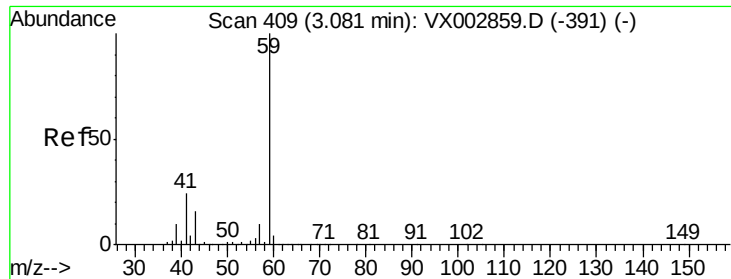
500

0

2.45 2.50 2.55 2.60

Time-->

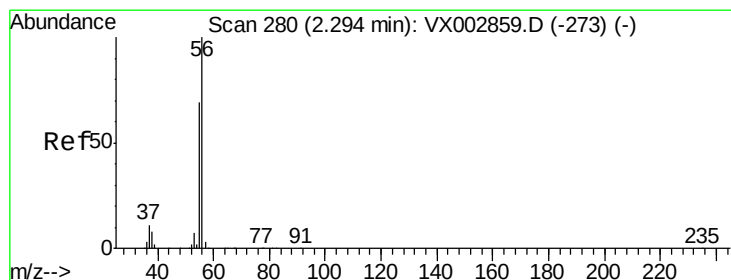
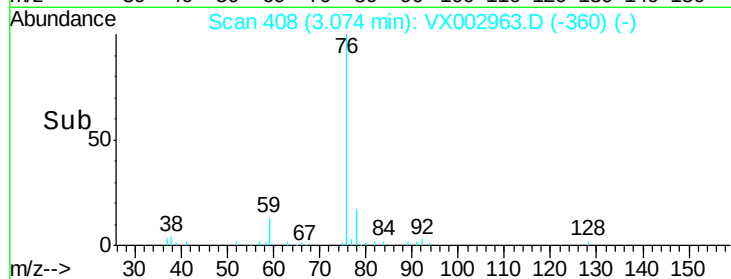
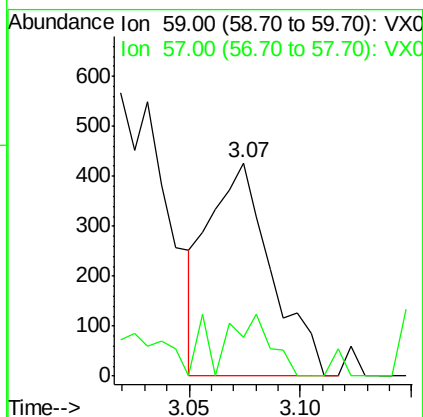
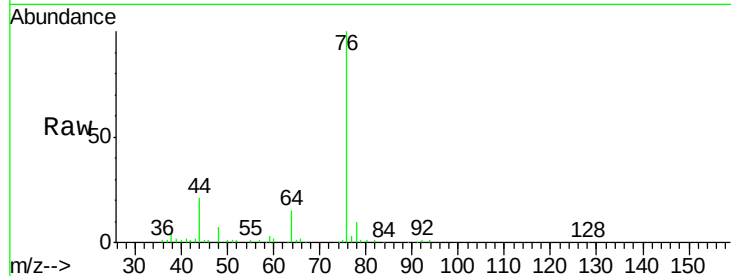




#11
Tert butyl alcohol
Concen: 1.12 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002963.D
Acq: 28 Jun 2018 03:59

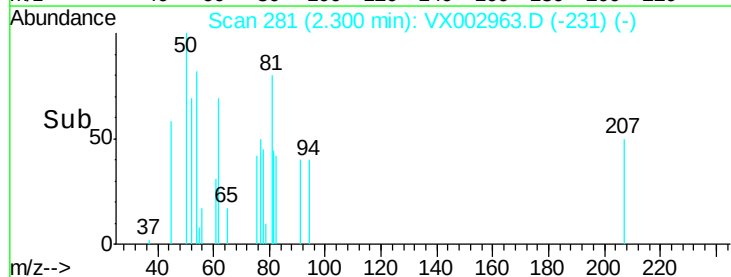
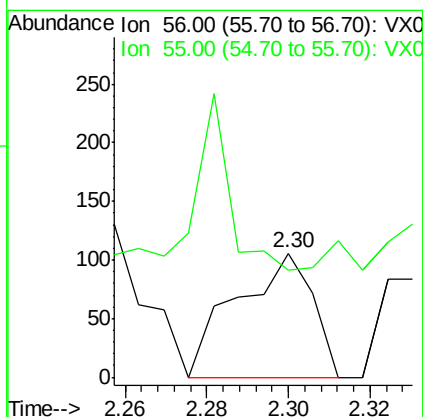
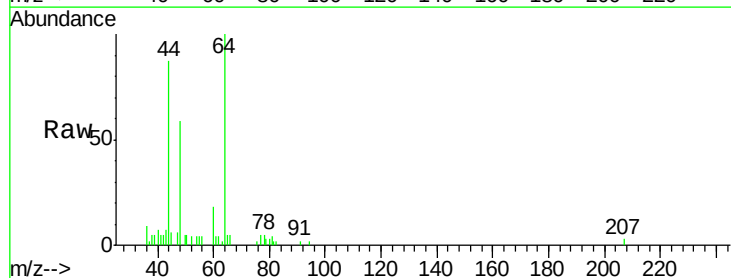
Instrument :
MSVOA_X
ClientSampleId :

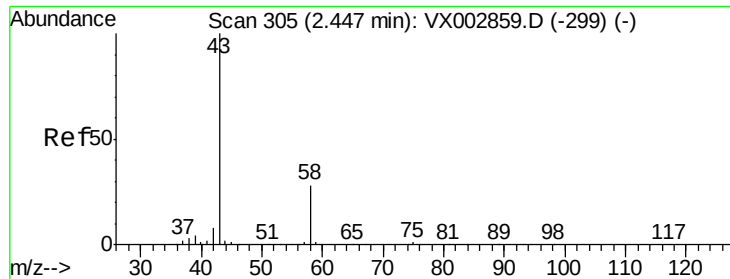
Tot Ion: 59 Resp: 835
Ion Ratio Lower Upper
59 100
57 18.3 8.2 12.2#



#13
Acrolein
Concen: 4.56 ug/l
RT: 2.30 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX002963.D
Acq: 28 Jun 2018 03:59

Tgt Ion: 56 Resp: 138
Ion Ratio Lower Upper
56 100
55 261.6 57.0 85.4#





#16

Acetone

Concen: 1.66 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX002963.D

Acq: 28 Jun 2018 03:59

Instrument :

MSVOA_X

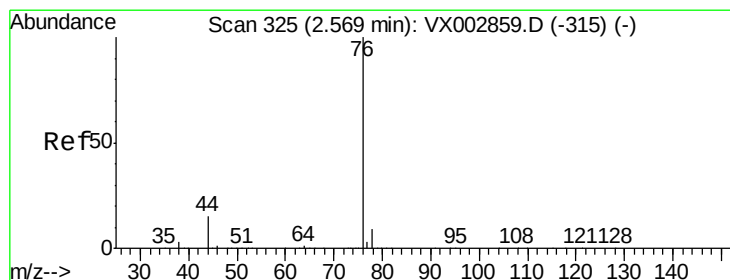
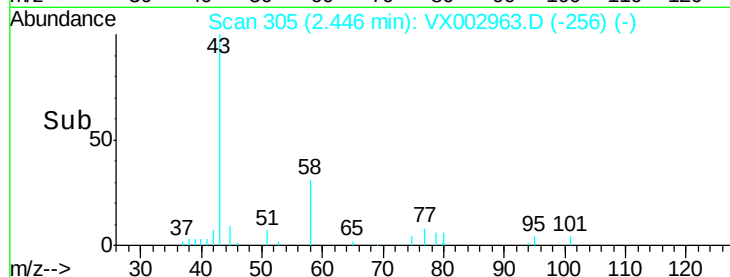
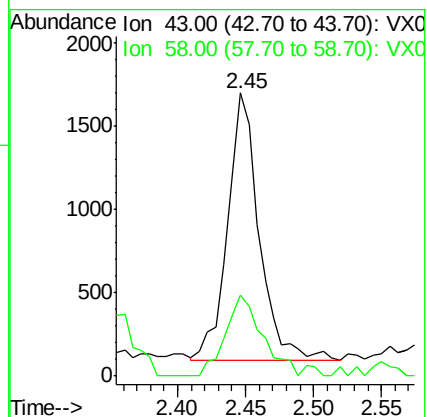
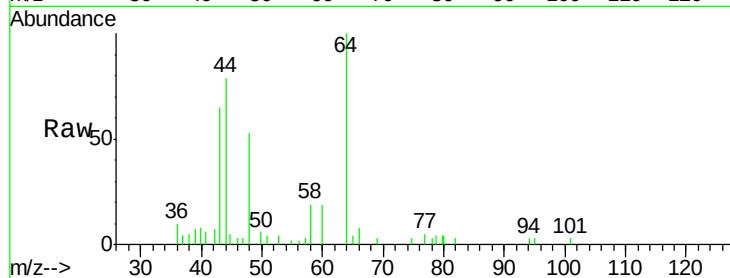
ClientSampleId :

Tot Ion: 43 Resp: 2570

Ion Ratio Lower Upper

43 100

58 30.6 22.1 33.1



#17

Carbon Disulfide

Concen: 0.83 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002963.D

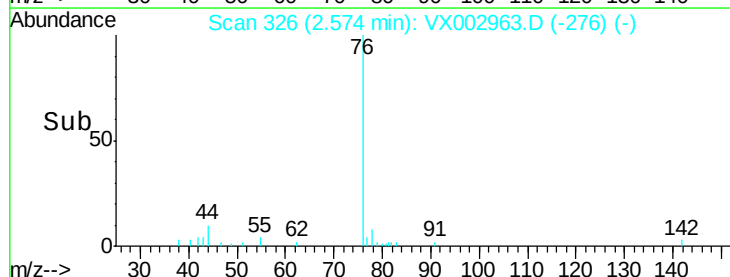
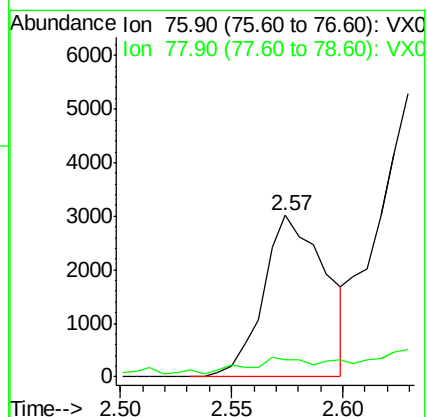
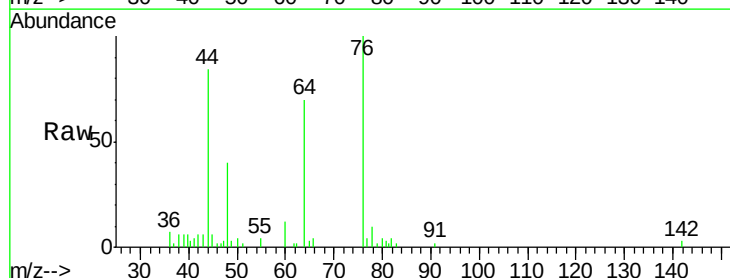
Acq: 28 Jun 2018 03:59

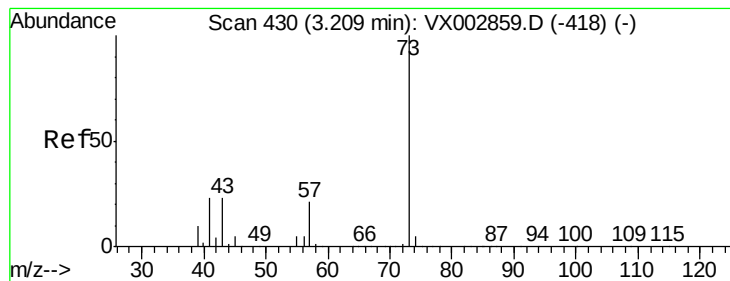
Tgt Ion: 76 Resp: 5889

Ion Ratio Lower Upper

76 100

78 6.4 6.9 10.3#





#19

Methyl tert-butyl Ether

Concen: 0.23 ug/l

RT: 3.20 min Scan# 429

Delta R.T. -0.01 min

Lab File: VX002963.D

Acq: 28 Jun 2018 03:59

Instrument :

MSVOA_X

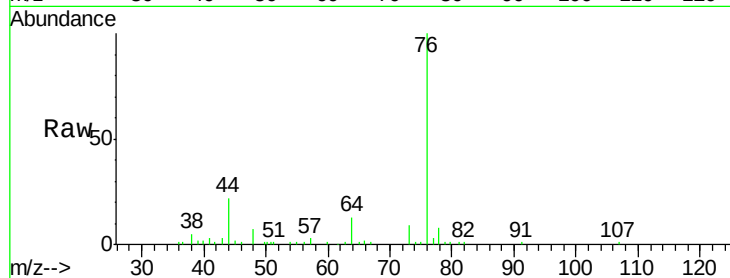
ClientSampled :

Tot Ion: 73 Resp: 2185

Ion Ratio Lower Upper

73 100

57 27.7 17.7 26.5#



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.20

800

600

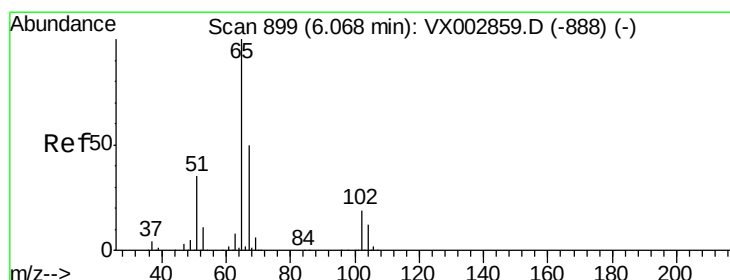
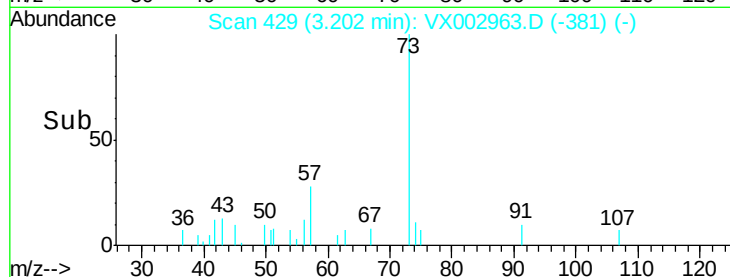
400

200

0

3.15 3.20 3.25 3.30

Time-->



#33

1,2-Dichloroethane-d4

Concen: 49.21 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX002963.D

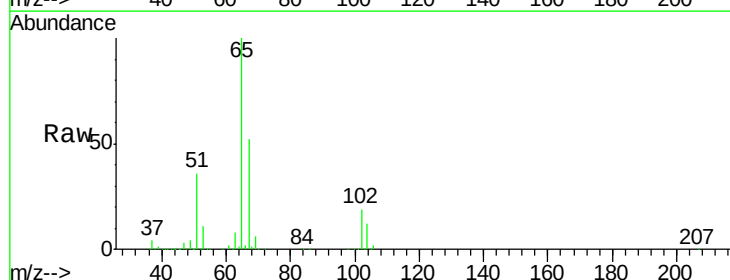
Acq: 28 Jun 2018 03:59

Tgt Ion: 65 Resp: 184373

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

6.07

80000

60000

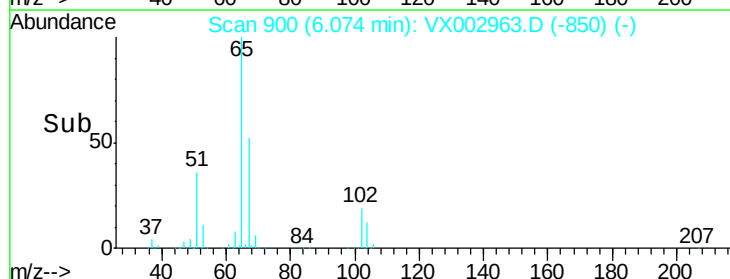
40000

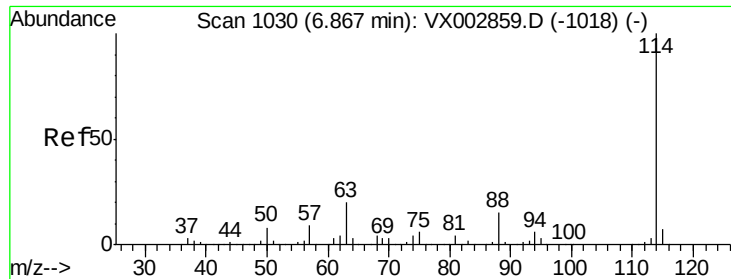
20000

0

6.00 6.10 6.20

Time-->





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002963.D

Acq: 28 Jun 2018 03:59

Instrument :

MSVOA_X

ClientSampleId :

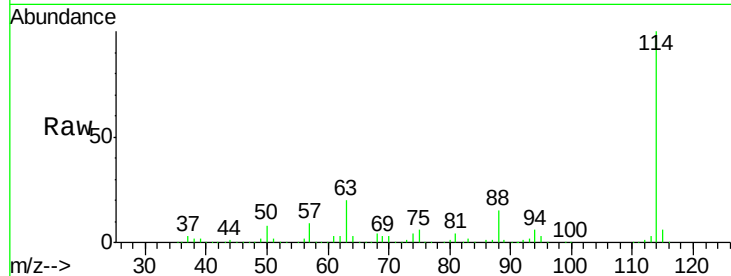
Tot Ion:114 Resp: 380761

Ion Ratio Lower Upper

114 100

63 20.4 0.0 41.4

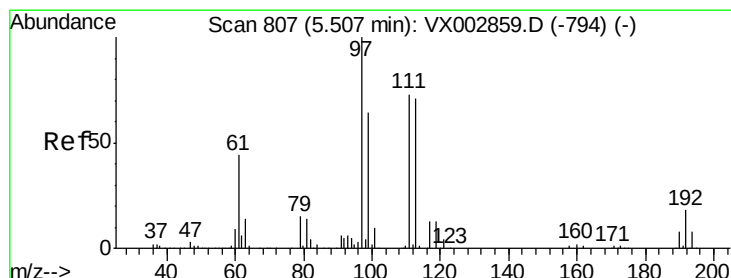
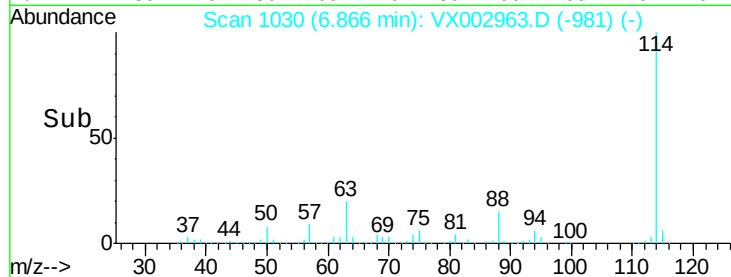
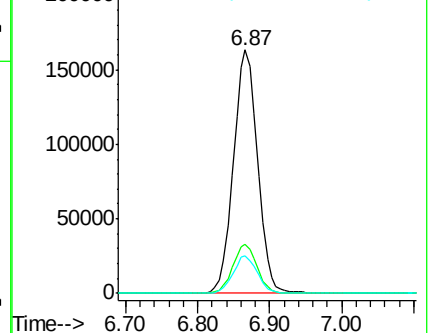
88 15.3 0.0 30.0



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: 48.94 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002963.D

Acq: 28 Jun 2018 03:59

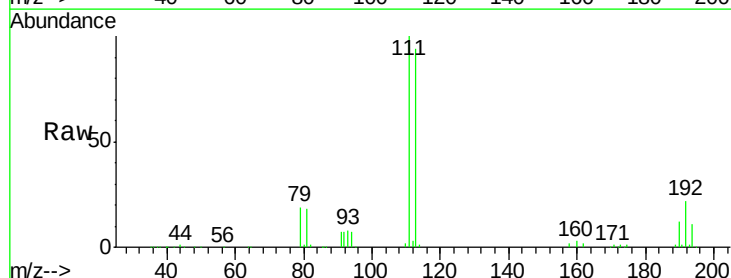
Tgt Ion:113 Resp: 147563

Ion Ratio Lower Upper

113 100

111 102.9 81.4 122.0

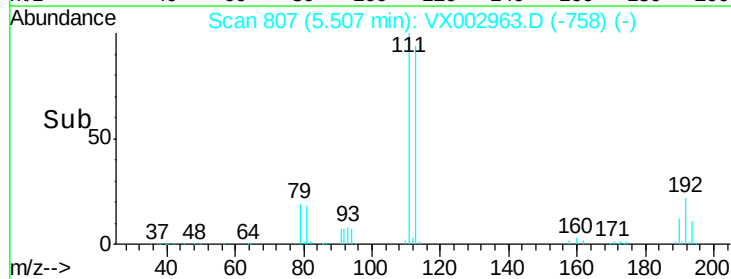
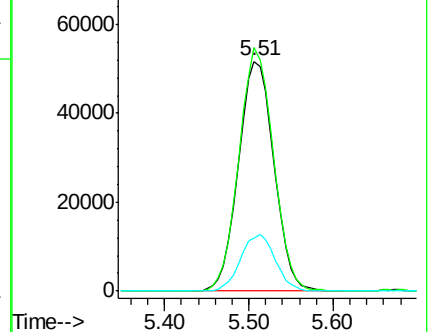
192 24.2 19.1 28.7

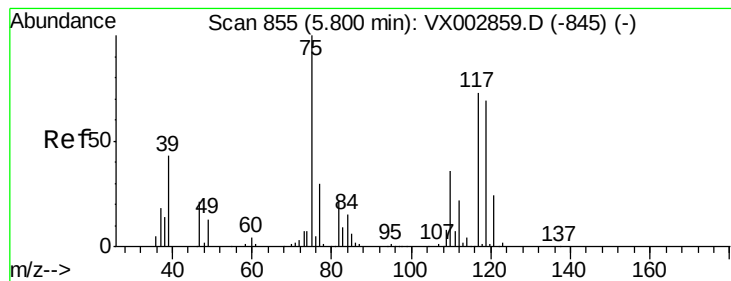


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.36 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002963.D

Acq: 28 Jun 2018 03:59

Instrument :

MSVOA_X

ClientSampleId :

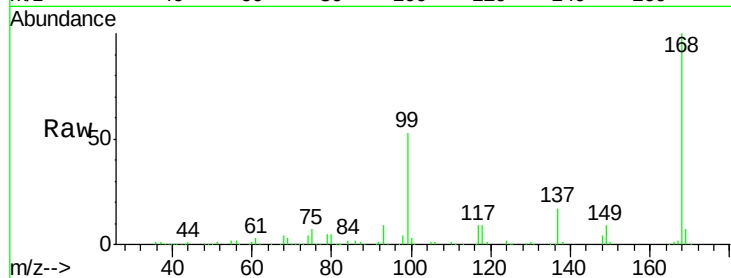
Tot Ion: 75 Resp: 18200

Ion Ratio Lower Upper

75 100

110 9.9 18.1 54.4#

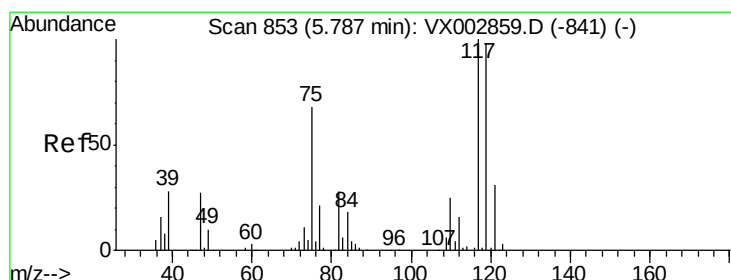
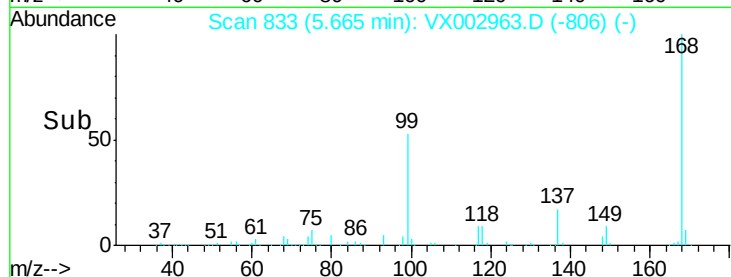
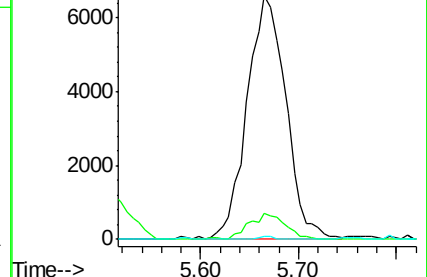
77 0.5 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VX002859.D (-845) (-)

Ion 109.90 (109.60 to 110.60): VX002859.D (-845) (-)

Ion 76.90 (76.60 to 77.60): VX002859.D (-845) (-)



#38

Carbon Tetrachloride

Concen: 5.42 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002963.D

Acq: 28 Jun 2018 03:59

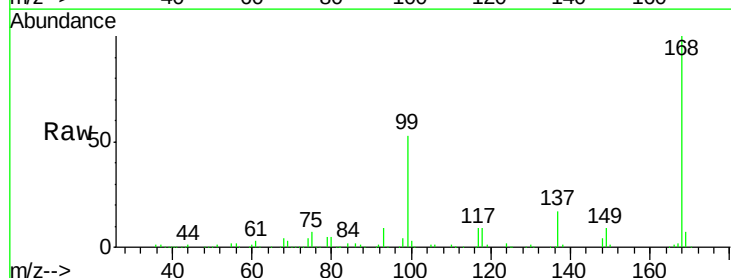
Tgt Ion: 117 Resp: 24822

Ion Ratio Lower Upper

117 100

119 6.2 77.4 116.0#

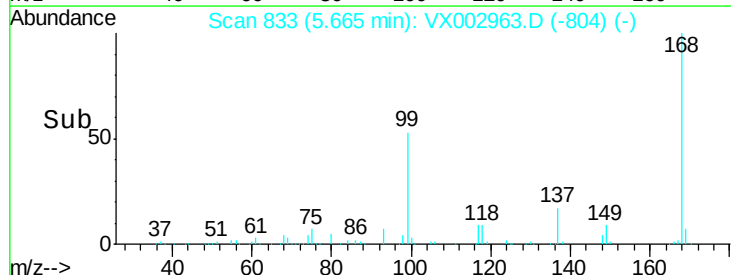
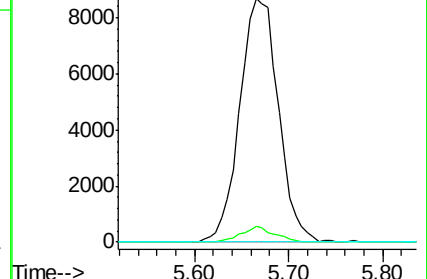
121 0.0 24.4 36.6#

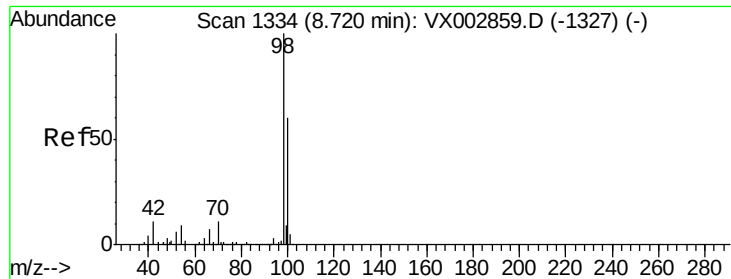


Abundance Ion 116.80 (116.50 to 117.50): VX002859.D (-841) (-)

Ion 118.80 (118.50 to 119.50): VX002859.D (-841) (-)

Ion 120.80 (120.50 to 121.50): VX002859.D (-841) (-)

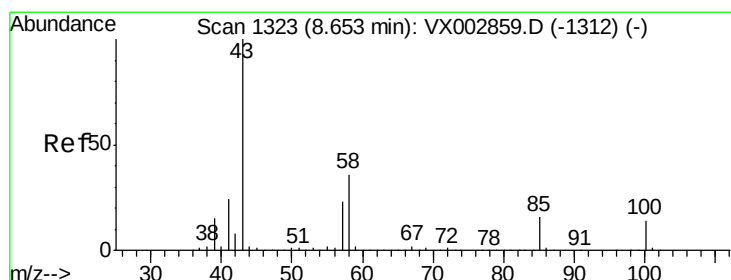
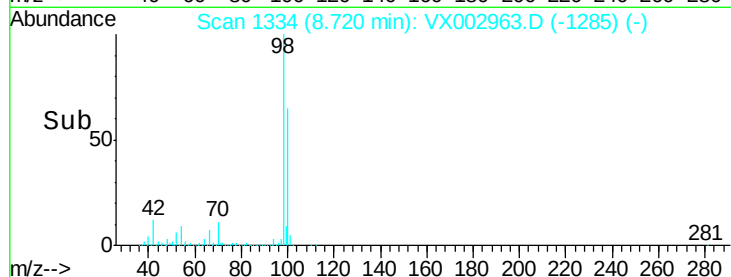
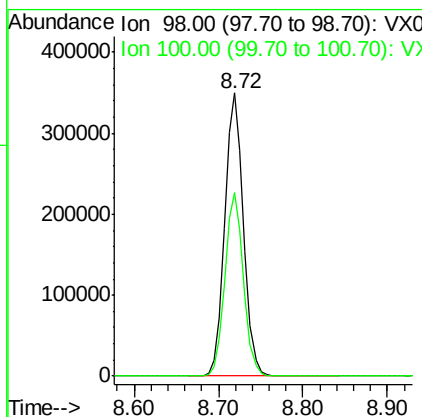
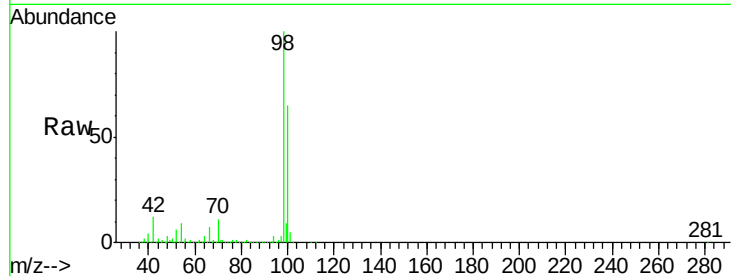




#50
Toluene-d8
Concen: 48.46 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002963.D
Acq: 28 Jun 2018 03:59

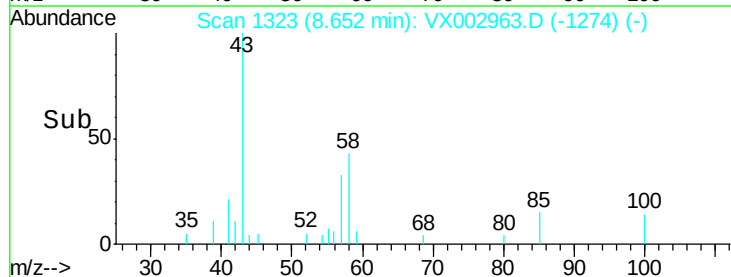
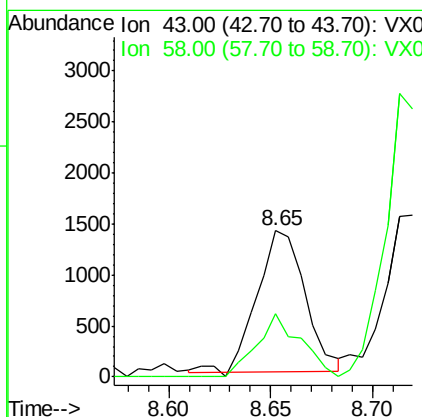
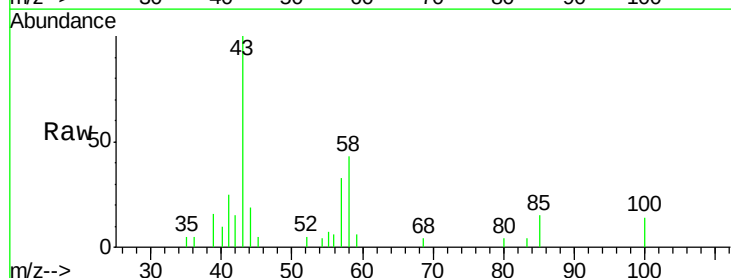
Instrument :
MSVOA_X
ClientSampleId :

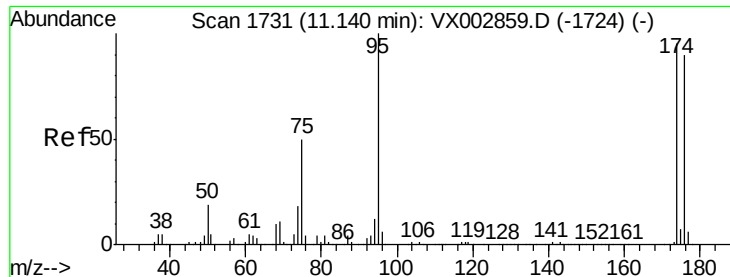
Tot Ion: 98 Resp: 533560
Ion Ratio Lower Upper
98 100
100 63.9 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.48 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. -0.00 min
Lab File: VX002963.D
Acq: 28 Jun 2018 03:59

Tgt Ion: 43 Resp: 2272
Ion Ratio Lower Upper
43 100
58 40.9 28.6 42.8

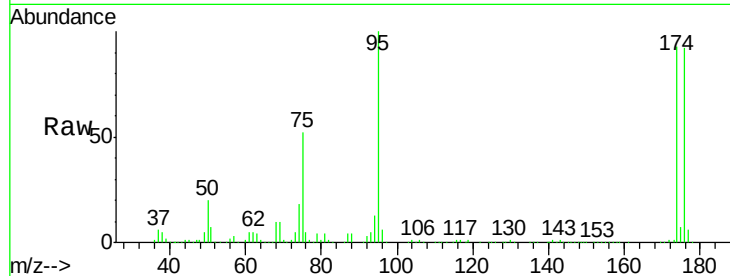




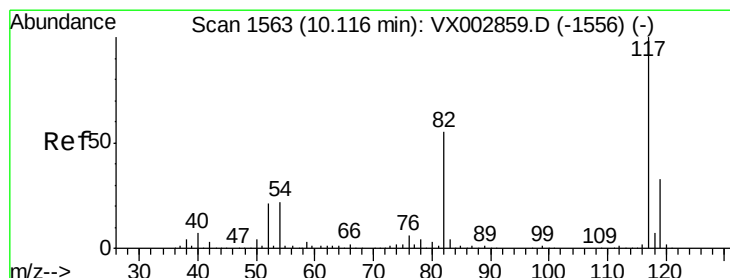
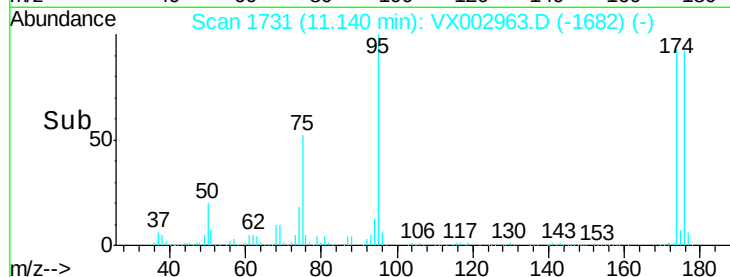
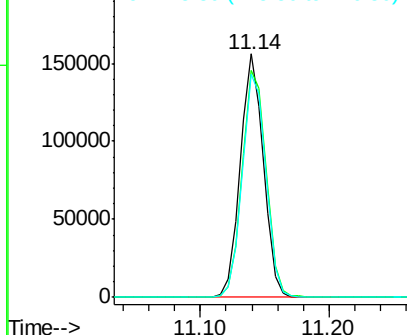
#62
4-Bromofluorobenzene
Concen: 45.41 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002963.D
Acq: 28 Jun 2018 03:59

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 95 Resp: 192816
Ion Ratio Lower Upper
95 100
174 96.7 0.0 187.4
176 93.9 0.0 181.0

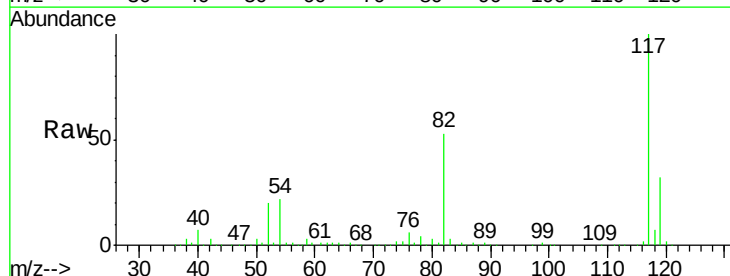


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

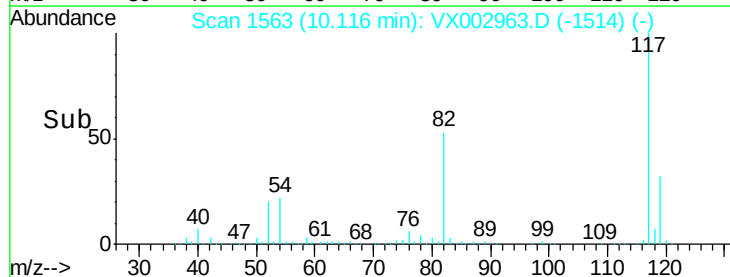
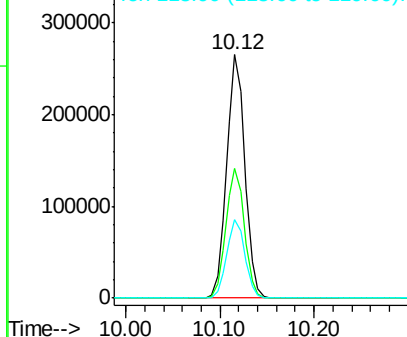


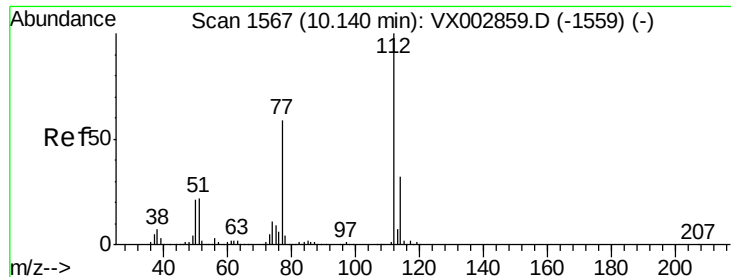
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002963.D
Acq: 28 Jun 2018 03:59

Tgt Ion: 117 Resp: 355909
Ion Ratio Lower Upper
117 100
82 53.3 45.0 67.4
119 32.3 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V





#65

Chlorobenzene

Concen: 1.48 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VX002963.D

Acq: 28 Jun 2018 03:59

Instrument :

MSVOA_X

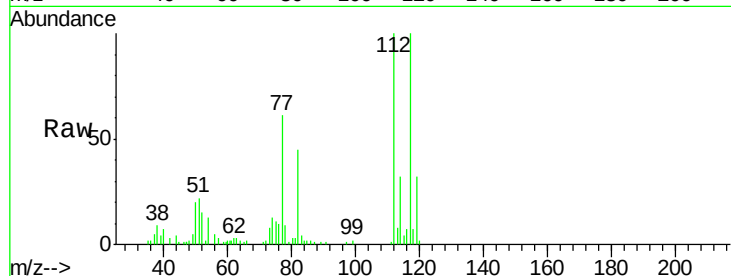
ClientSampleId :

Tot Ion:112 Resp: 13404

Ion Ratio Lower Upper

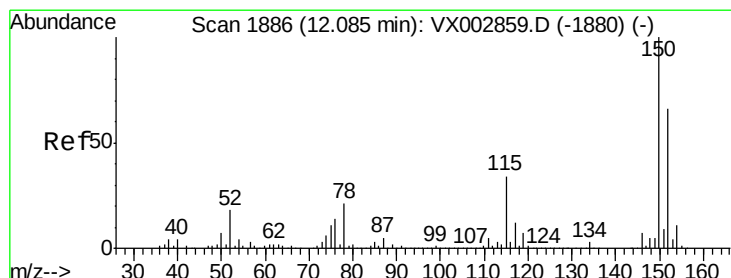
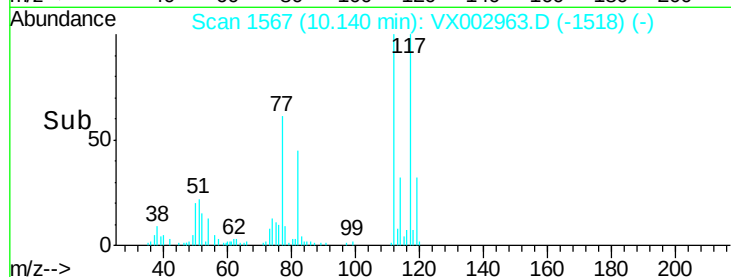
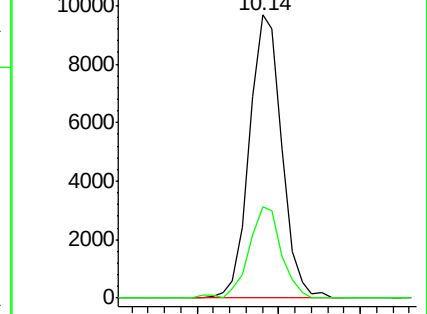
112 100

114 32.2 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# 1885

Delta R.T. -0.01 min

Lab File: VX002963.D

Acq: 28 Jun 2018 03:59

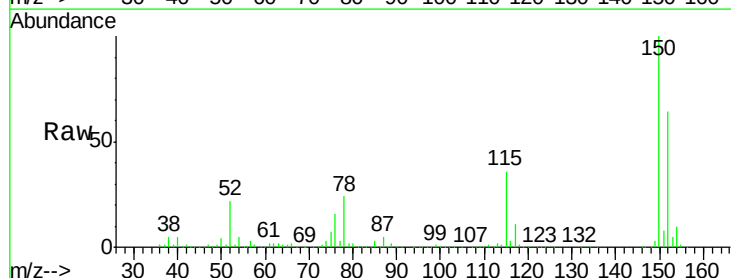
Tgt Ion:152 Resp: 204692

Ion Ratio Lower Upper

152 100

115 54.0 40.1 120.2

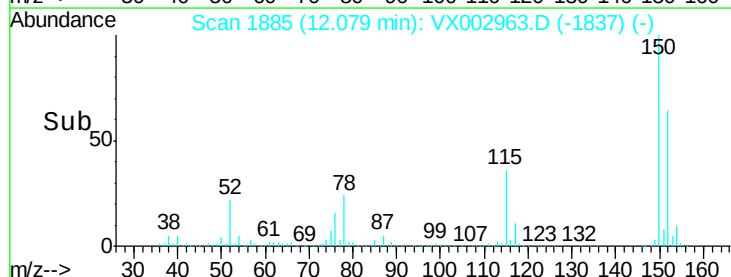
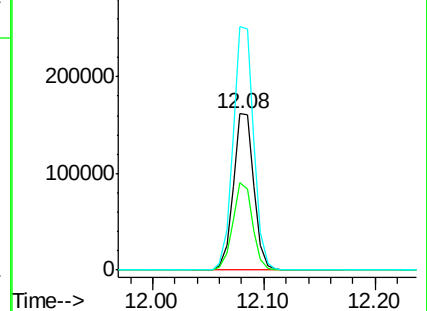
150 155.9 0.0 347.2

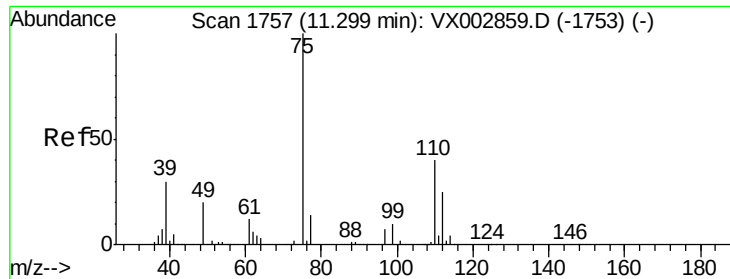


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

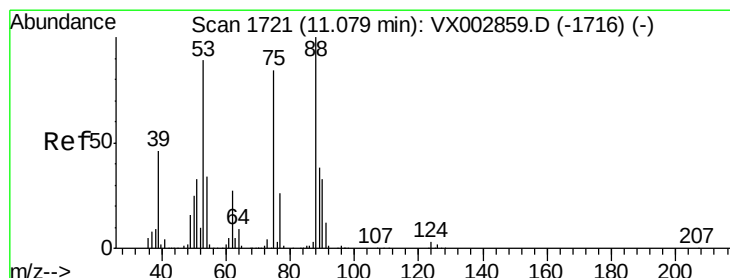
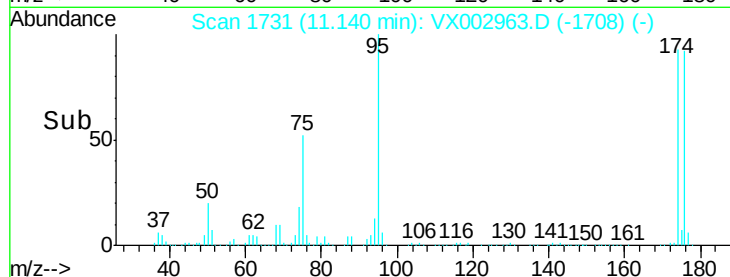
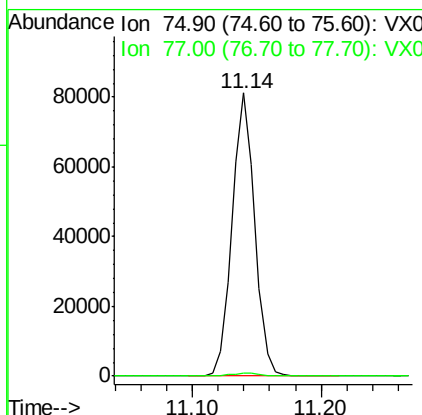
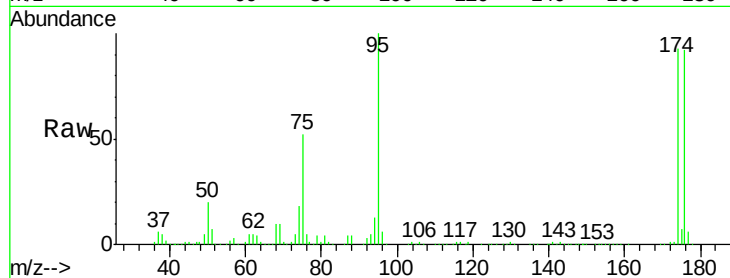




#76
 1,2,3-Trichloropropane
 Concen: 26.92 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002963.D
 Acq: 28 Jun 2018 03:59

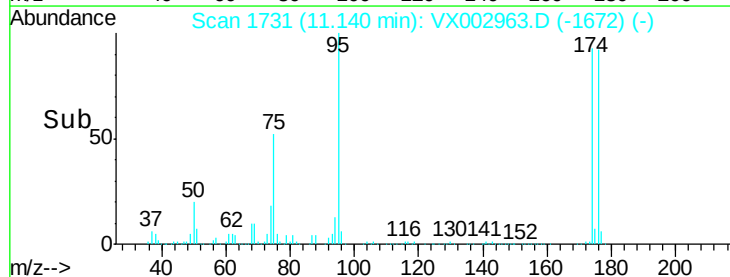
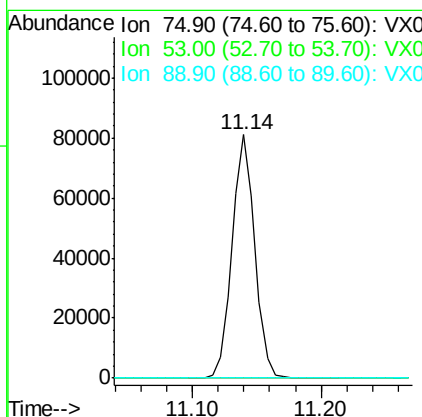
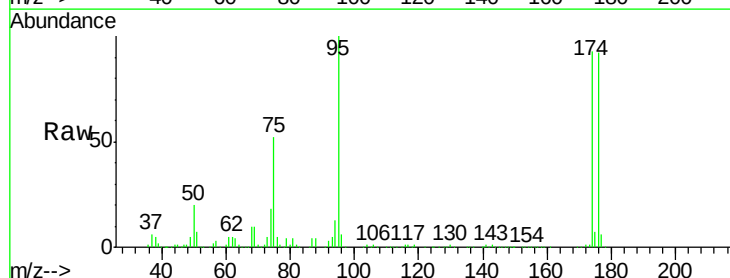
Instrument :
 MSVOA_X
 ClientSampled :

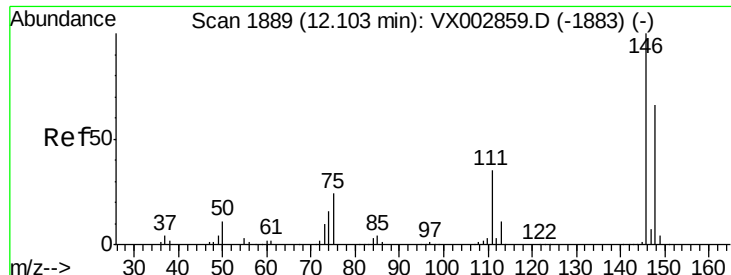
Tot Ion: 75 Resp: 99795
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 76.20 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002963.D
 Acq: 28 Jun 2018 03:59

Tgt Ion: 75 Resp: 99795
 Ion Ratio Lower Upper
 75 100
 53 0.2 86.8 130.2#
 89 0.0 38.2 57.2#





#88

1,4-Dichlorobenzene

Concen: 0.50 ug/l

RT: 12.10 min Scan# 1888

Delta R.T. -0.01 min

Lab File: VX002963.D

Acq: 28 Jun 2018 03:59

Instrument :

MSVOA_X

ClientSampleId :

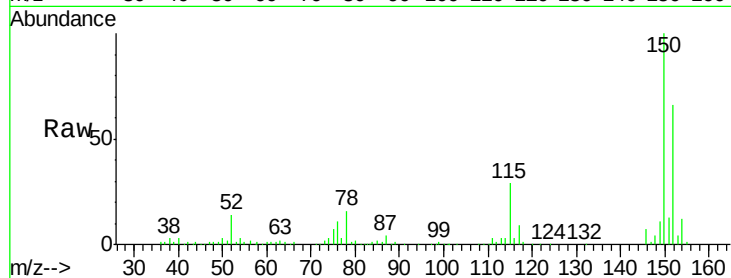
Tot Ion:146 Resp: 3667

Ion Ratio Lower Upper

146 100

111 0.0 18.7 56.1#

148 85.3 32.4 97.0



Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

