

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062818\
 Data File : VX002996.D
 Acq On : 28 Jun 2018 20:06
 Operator : JC/MD
 Sample : J3668-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WP021RW244-180620

Quant Time: Jun 29 06:12:24 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	281342	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	393157	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	363022	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	212235	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	184018	47.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.64%	
35) Dibromofluoromethane	5.51	113	150153	48.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.46%	
50) Toluene-d8	8.72	98	549038	48.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.58%	
62) 4-Bromofluorobenzene	11.14	95	200023	45.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.24%	

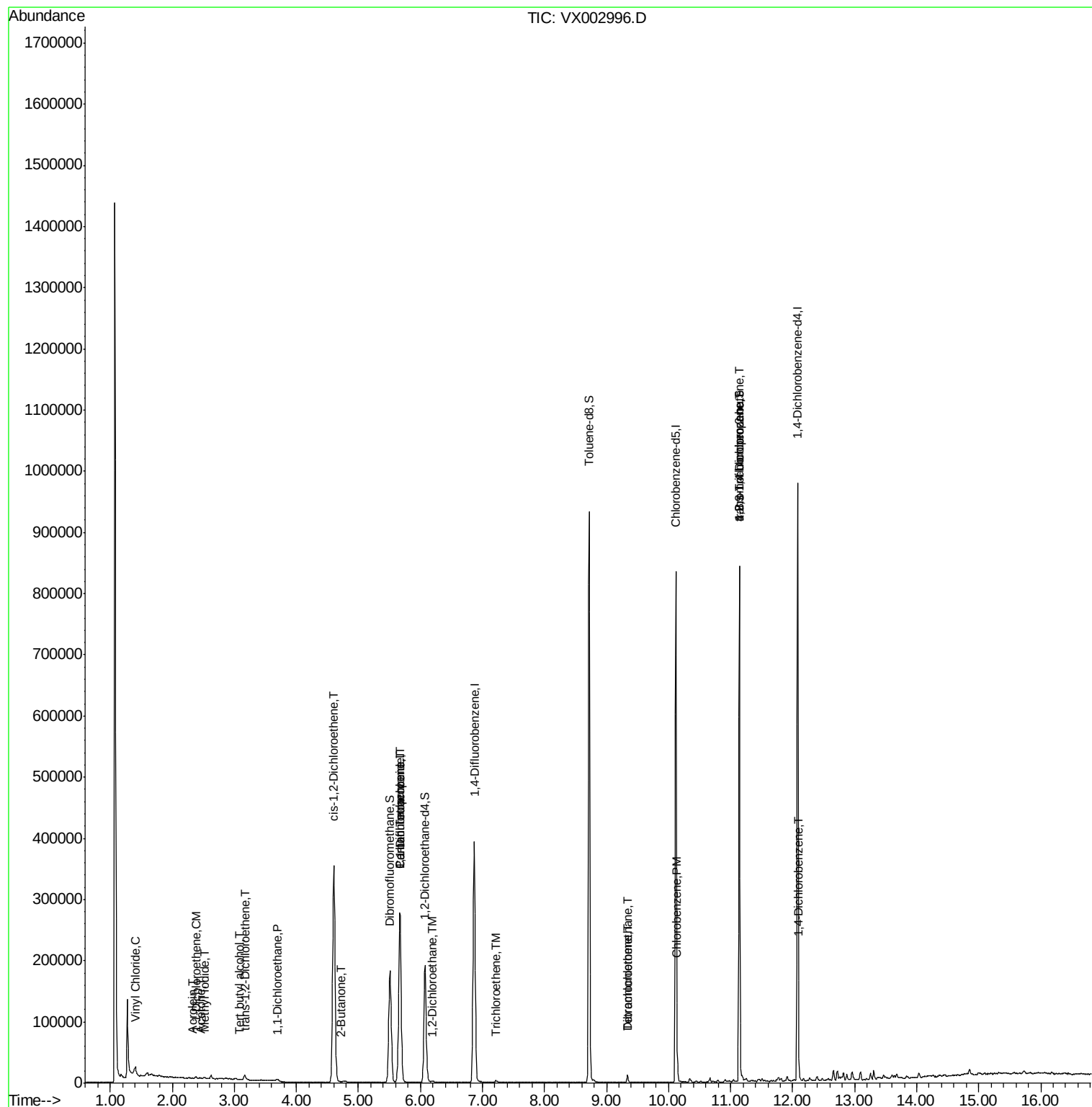
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	250	Below Cal	#	49
3) Chloromethane	1.32	50	1050	Below Cal	#	77
4) Vinyl Chloride	1.40	62	2619	0.82	ug/l	# 1
5) Bromomethane	1.65	94	2084	Below Cal		91
6) Chloroethane	1.70	64	901	Below Cal	#	61
10) Methyl Iodide	2.52	142	2019	6.79	ug/l	98
11) Tert butyl alcohol	3.08	59	222	0.29	ug/l	# 1
12) 1,1-Dichloroethene	2.38	96	1136	0.41	ug/l	# 72
13) Acrolein	2.31	56	173	4.63	ug/l	# 14
16) Acetone	2.45	43	1417	0.88	ug/l	# 48
21) trans-1,2-Dichloroethene	3.17	96	3087	1.02	ug/l	# 75
24) 1,1-Dichloroethane	3.70	63	1585	0.28	ug/l	# 92
25) 2-Butanone	4.71	43	518	0.22	ug/l	91
27) cis-1,2-Dichloroethene	4.60	96	222292	65.60	ug/l	84
36) 1,1-Dichloropropene	5.67	75	18991	4.40	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	25145	5.31	ug/l	# 16
42) 1,2-Dichloroethane	6.20	62	1532	0.30	ug/l	# 77
44) Trichloroethene	7.21	130	1357	0.36	ug/l	81
60) Dibromochloromethane	9.34	129	1942	0.56	ug/l	# 11
64) Tetrachloroethene	9.34	164	2313	0.57	ug/l	87
65) Chlorobenzene	10.14	112	10228	1.11	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	103716	26.98	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	103716	76.38	ug/l	# 7
88) 1,4-Dichlorobenzene	12.10	146	2136	0.28	ug/l	# 52

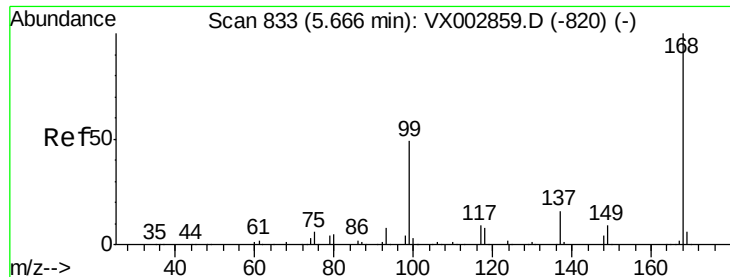
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 25 14:38:05 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX002996.D

Acq: 28 Jun 2018 20:06

Instrument :

MSVOA_X

ClientSampleId :

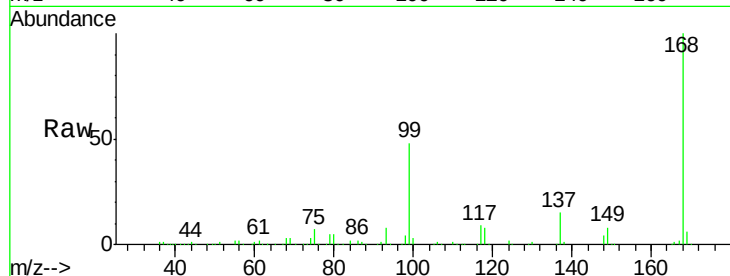
WP021RW244-180620

Tot Ion:168 Resp: 281342

Ion Ratio Lower Upper

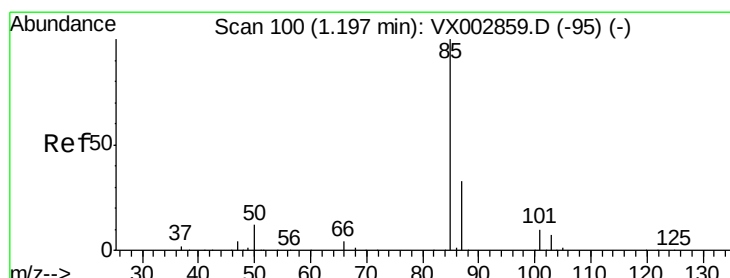
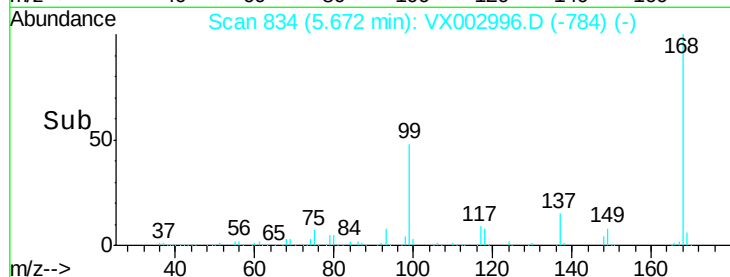
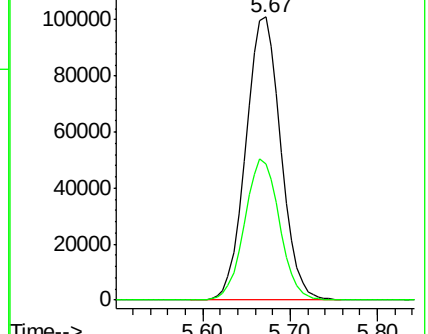
168 100

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: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002996.D

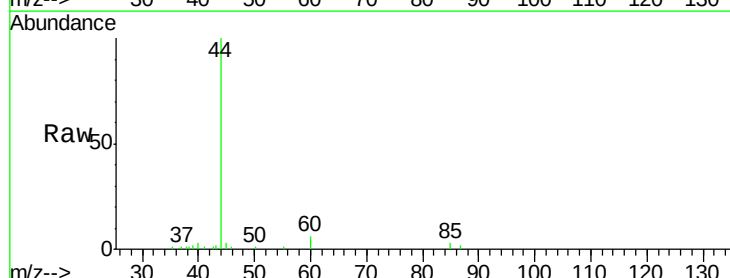
Acq: 28 Jun 2018 20:06

Tgt Ion: 85 Resp: 250

Ion Ratio Lower Upper

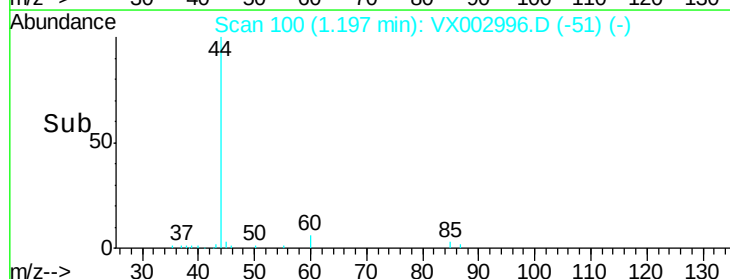
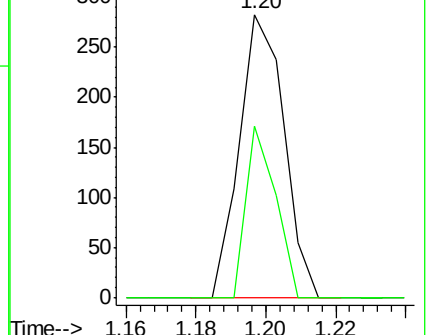
85 100

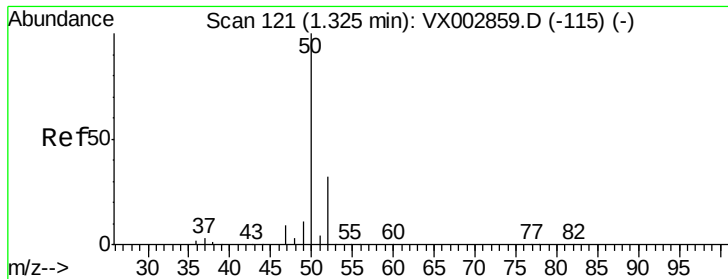
87 60.4 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX002996.D

Acq: 28 Jun 2018 20:06

Instrument :

MSVOA_X

ClientSampleId :

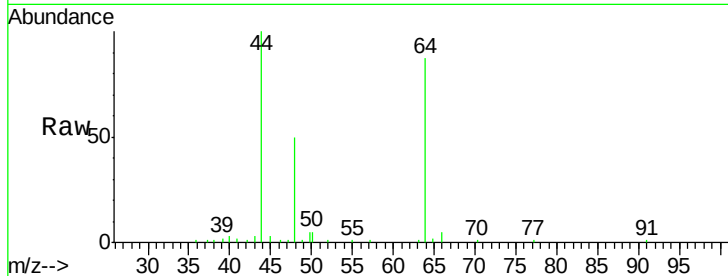
WP021RW244-180620

Tot Ion: 50 Resp: 1050

Ion Ratio Lower Upper

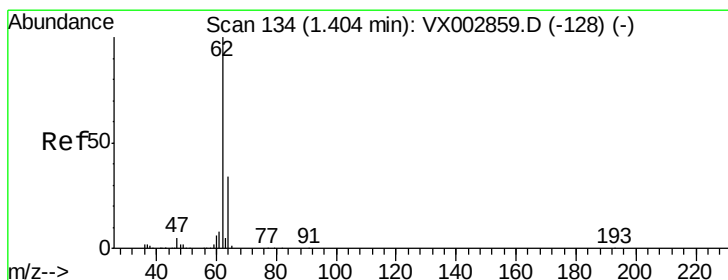
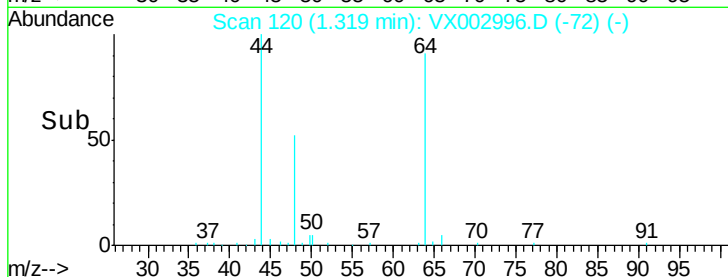
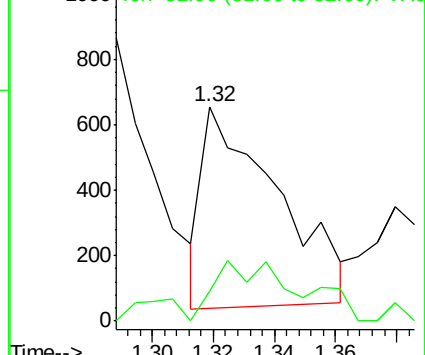
50 100

52 19.0 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 0.82 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX002996.D

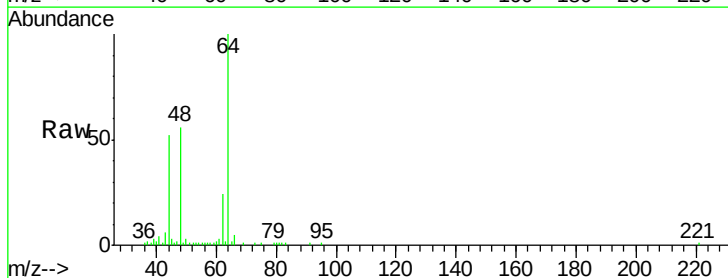
Acq: 28 Jun 2018 20:06

Tgt Ion: 62 Resp: 2619

Ion Ratio Lower Upper

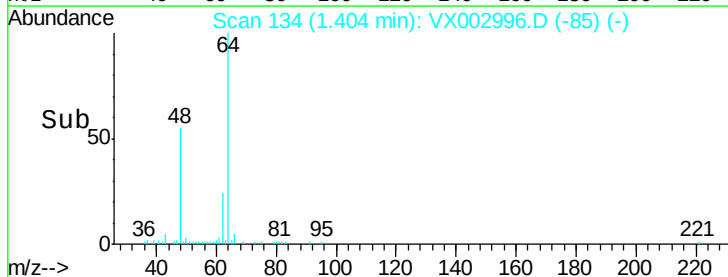
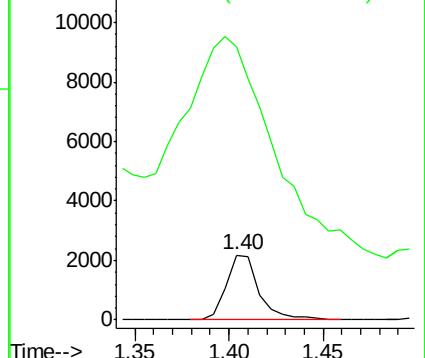
62 100

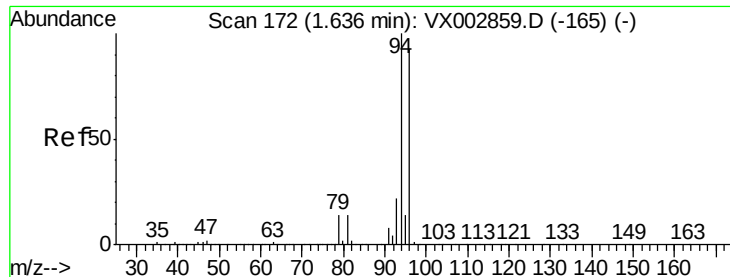
64 282.1 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002996.D

Acq: 28 Jun 2018 20:06

Instrument :

MSVOA_X

ClientSampleId :

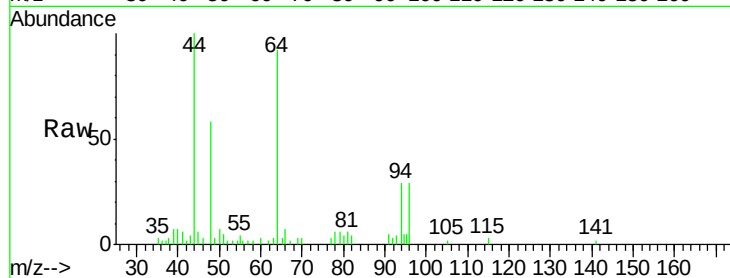
WP021RW244-180620

Tot Ion: 94 Resp: 2084

Ion Ratio Lower Upper

94 100

96 85.1 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

800

600

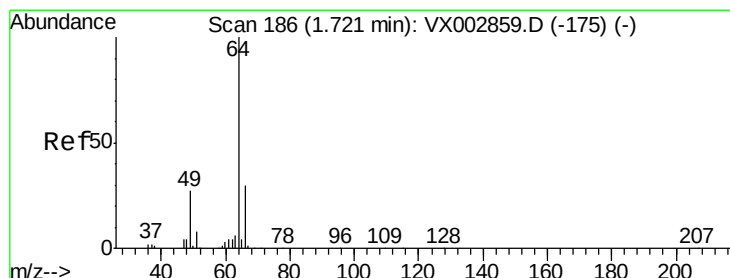
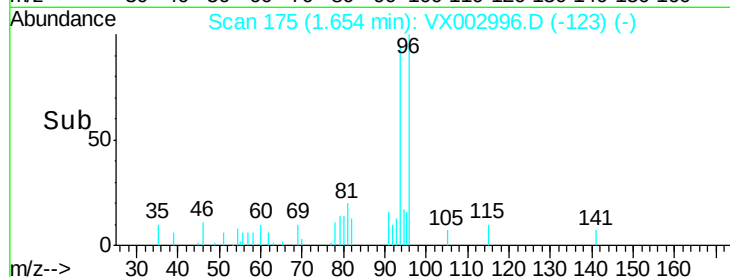
400

200

0

1.60 1.65 1.70 1.75

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 183

Delta R.T. -0.02 min

Lab File: VX002996.D

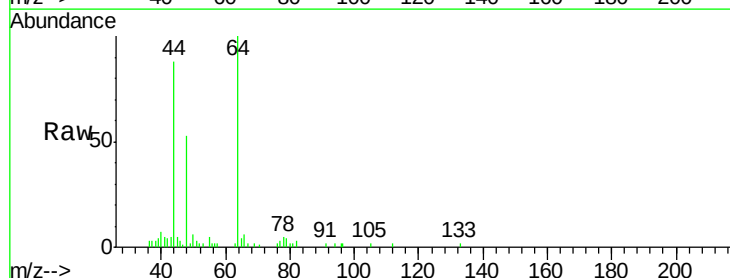
Acq: 28 Jun 2018 20:06

Tgt Ion: 64 Resp: 901

Ion Ratio Lower Upper

64 100

66 10.2 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.70

4000

3000

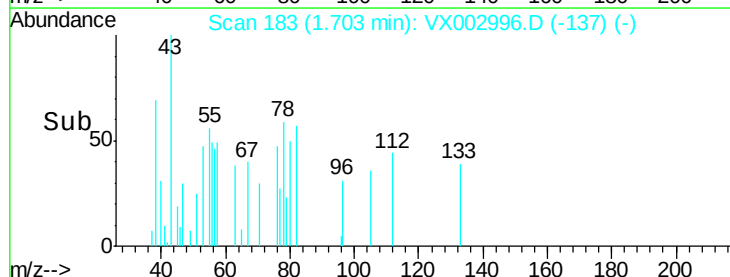
2000

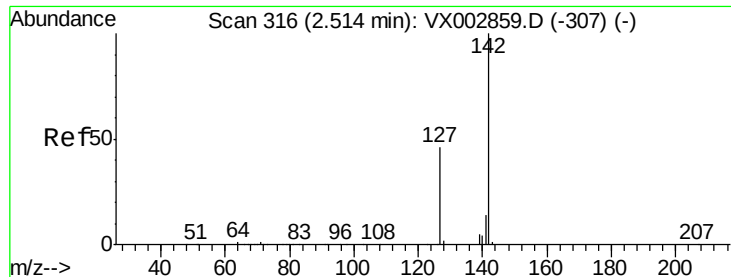
1000

0

1.68 1.70 1.72 1.74

Time-->

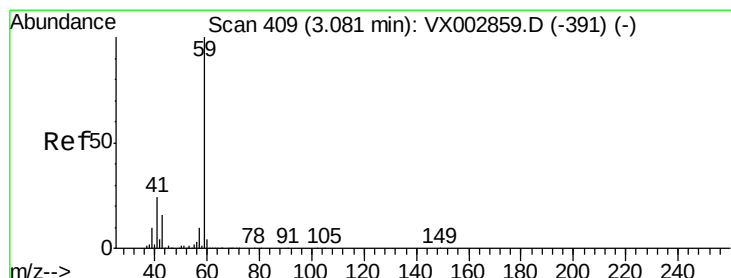
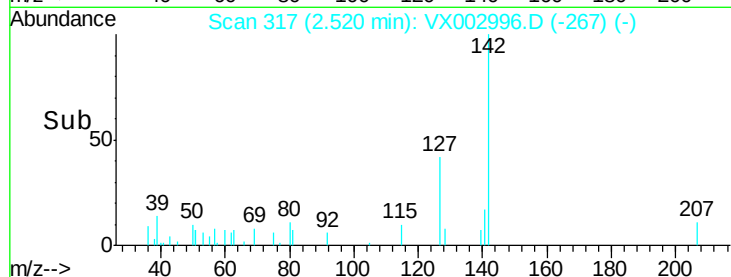
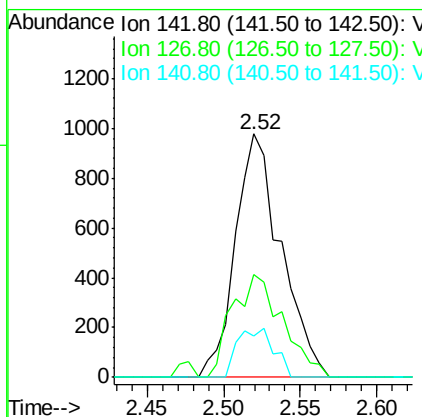
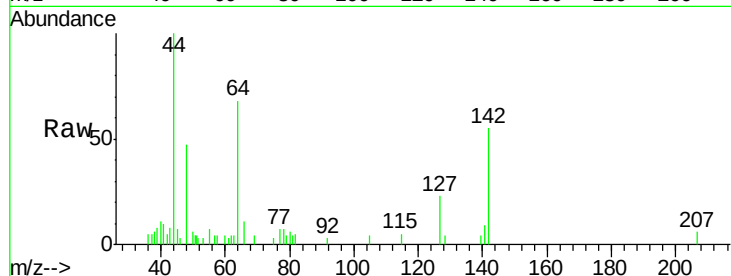




#10
Methvl Iodide
Concen: 6.79 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002996.D
Acq: 28 Jun 2018 20:06

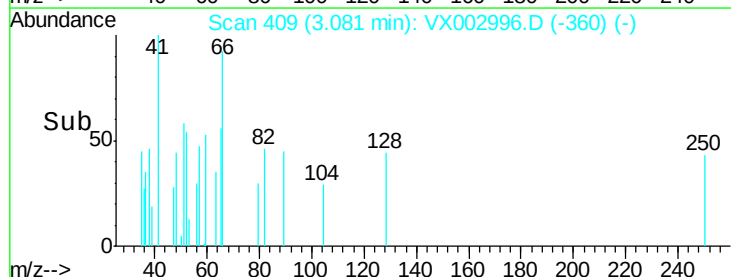
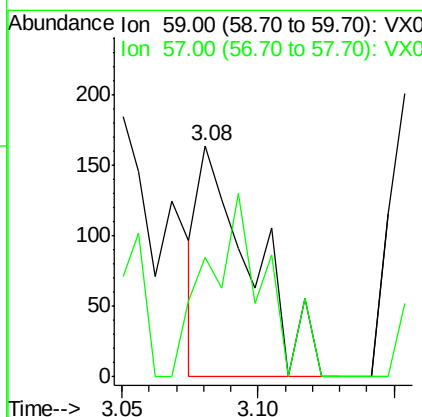
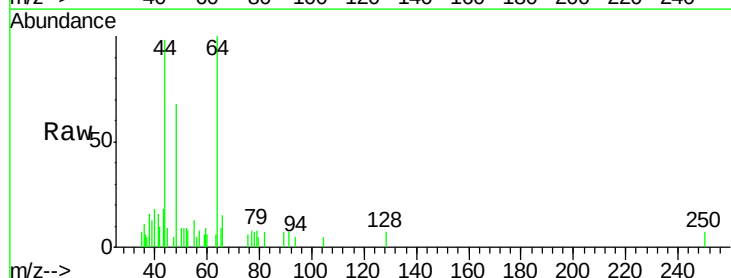
Instrument :
MSVOA_X
ClientSampleId :
WP021RW244-180620

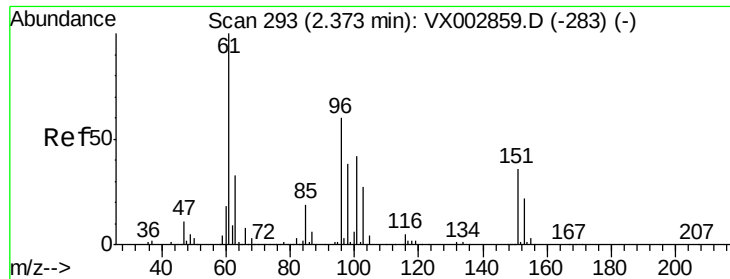
Tot Ion:142 Resp: 2019
Ion Ratio Lower Upper
142 100
127 46.8 36.6 55.0
141 16.1 11.3 16.9



#11
Tert butyl alcohol
Concen: 0.29 ug/l
RT: 3.08 min Scan# 409
Delta R.T. -0.00 min
Lab File: VX002996.D
Acq: 28 Jun 2018 20:06

Tgt Ion: 59 Resp: 222
Ion Ratio Lower Upper
59 100
57 86.9 8.2 12.2#

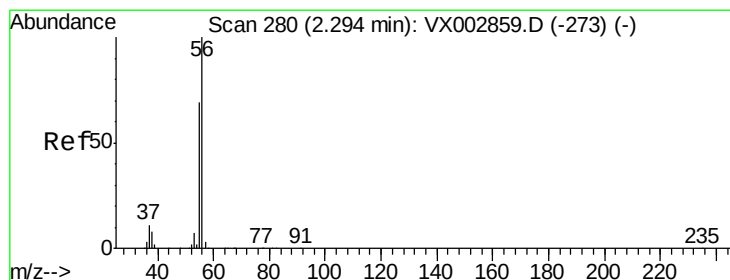
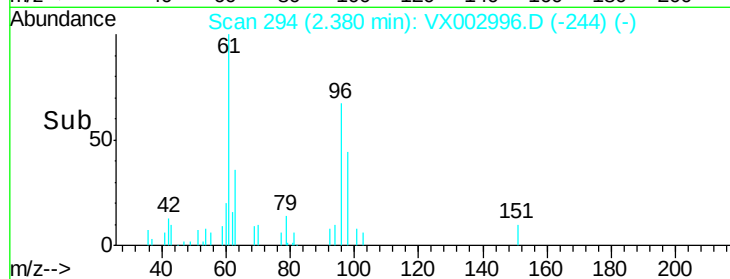
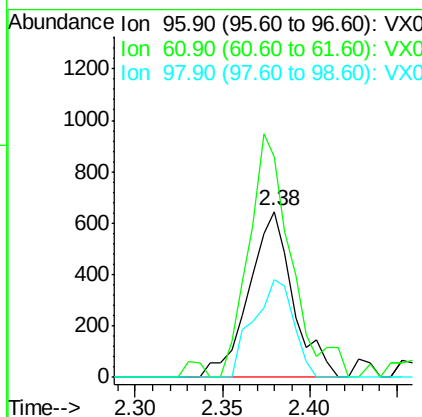
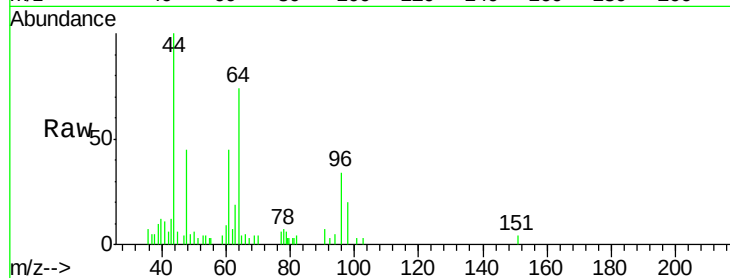




#12
 1,1-Dichloroethene
 Concen: 0.41 ug/l
 RT: 2.38 min Scan# 294
 Delta R.T. 0.01 min
 Lab File: VX002996.D
 Acq: 28 Jun 2018 20:06

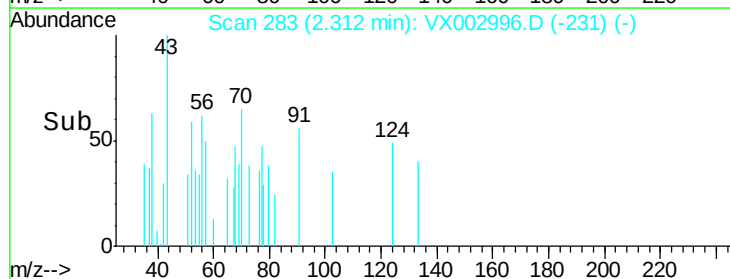
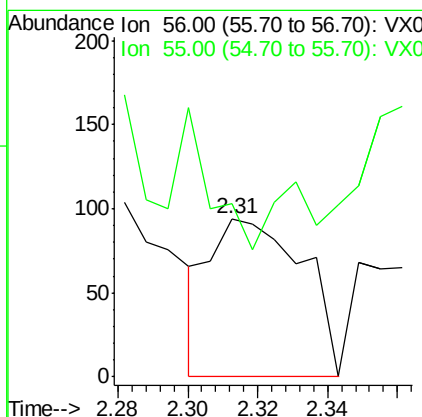
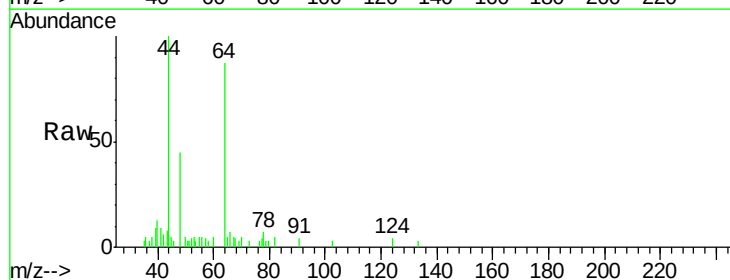
Instrument :
 MSVOA_X
 ClientSampleId :
 WP021RW244-180620

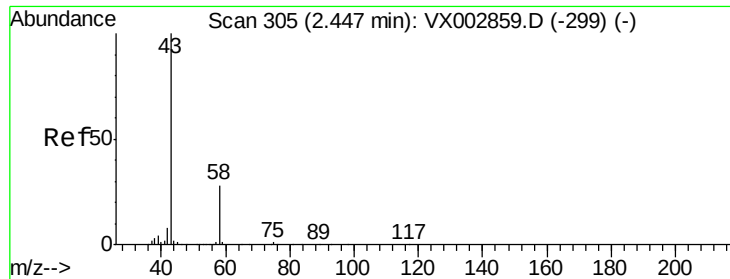
Tot Ion: 96 Resp: 1136
 Ion Ratio Lower Upper
 96 100
 61 123.1 137.9 206.9#
 98 58.5 51.6 77.4



#13
 Acrolein
 Concen: 4.63 ug/l
 RT: 2.31 min Scan# 283
 Delta R.T. 0.02 min
 Lab File: VX002996.D
 Acq: 28 Jun 2018 20:06

Tgt Ion: 56 Resp: 173
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.0 85.4#





#16

Acetone

Concen: 0.88 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX002996.D

Acq: 28 Jun 2018 20:06

Instrument :

MSVOA_X

ClientSampleId :

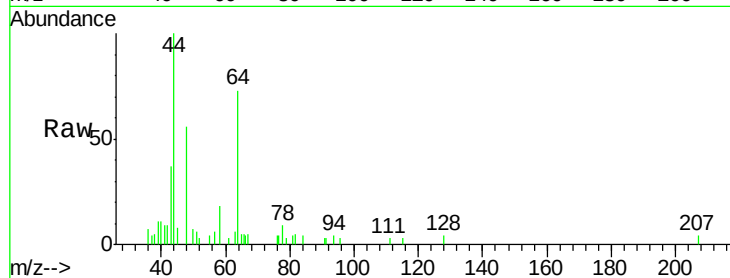
WP021RW244-180620

Tot Ion: 43 Resp: 1417

Ion Ratio Lower Upper

43 100

58 54.8 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

600

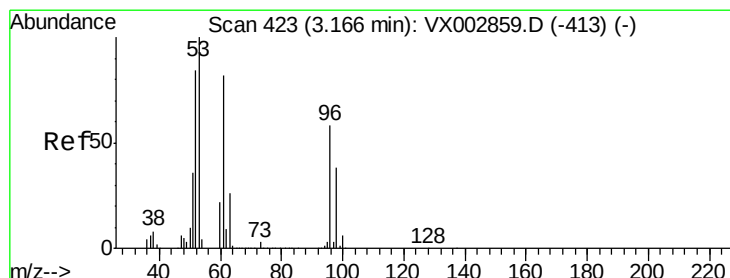
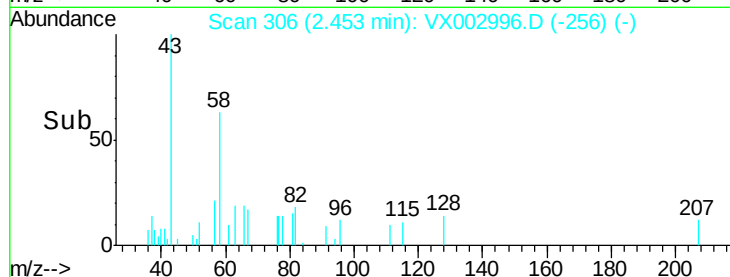
400

200

0

2.40 2.45 2.50

Time-->



#21

trans-1,2-Dichloroethene

Concen: 1.02 ug/l

RT: 3.17 min Scan# 424

Delta R.T. 0.01 min

Lab File: VX002996.D

Acq: 28 Jun 2018 20:06

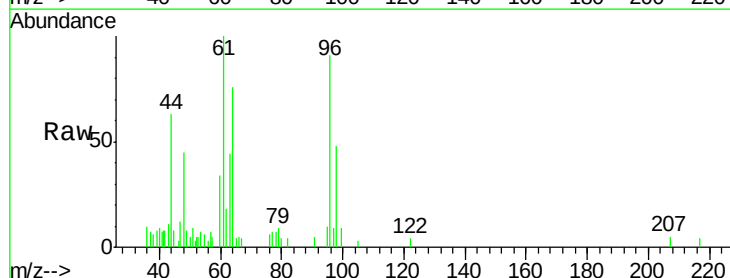
Tgt Ion: 96 Resp: 3087

Ion Ratio Lower Upper

96 100

61 110.1 117.0 175.4#

98 52.9 52.4 78.6



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

2500

2000

1500

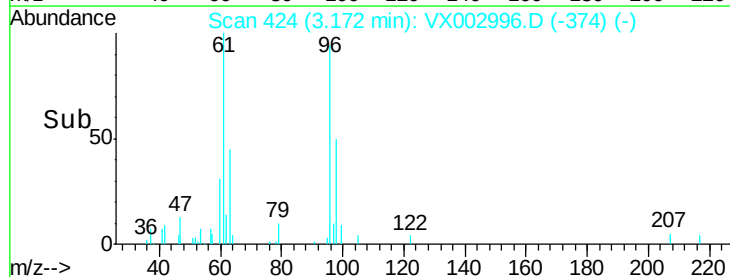
1000

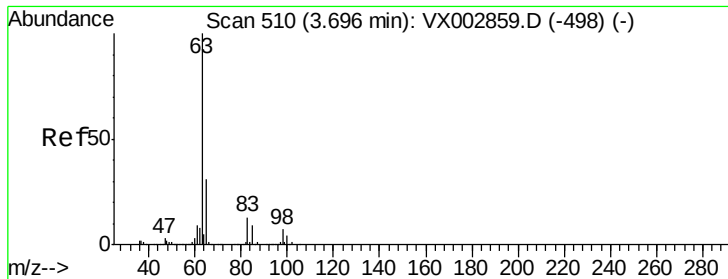
500

0

3.10 3.17 3.20 3.30

Time-->





#24

1,1-Dichloroethane

Concen: 0.28 ug/l

RT: 3.70 min Scan# 510

Delta R.T. -0.00 min

Lab File: VX002996.D

Acq: 28 Jun 2018 20:06

Instrument :

MSVOA_X

ClientSampleId :

WP021RW244-180620

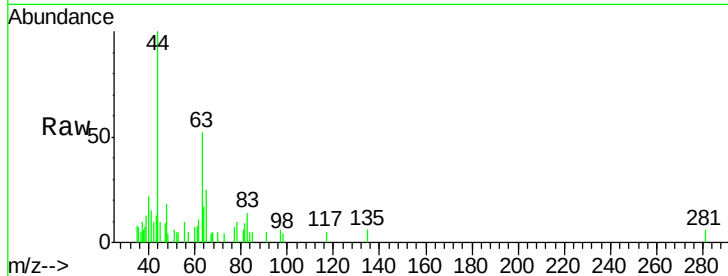
Tot Ion: 63 Resp: 1585

Ion Ratio Lower Upper

63 100

98 8.5 3.4 10.2

100 0.0 2.0 6.0#



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0

3.70

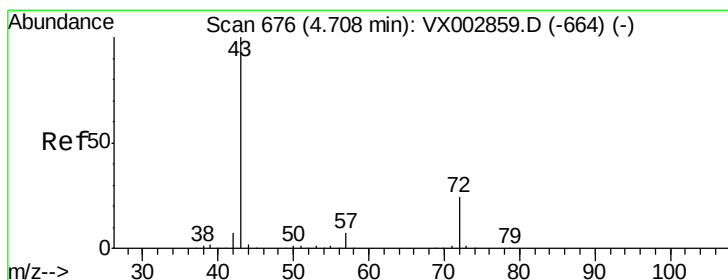
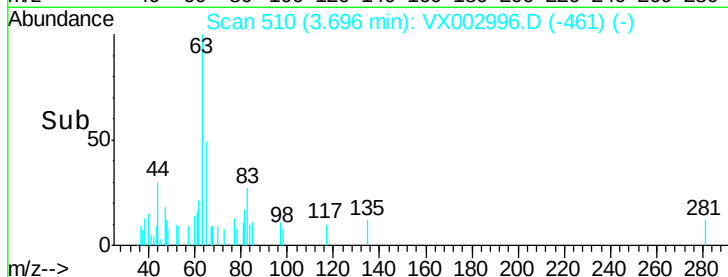
600

400

200

0

Time-->



#25

2-Butanone

Concen: 0.22 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX002996.D

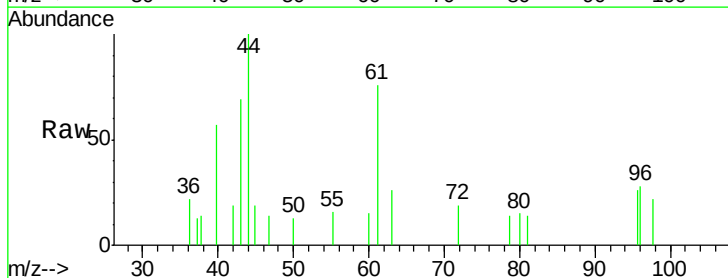
Acq: 28 Jun 2018 20:06

Tgt Ion: 43 Resp: 518

Ion Ratio Lower Upper

43 100

72 27.4 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0

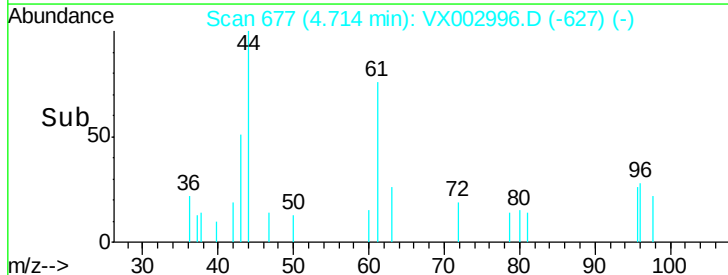
300

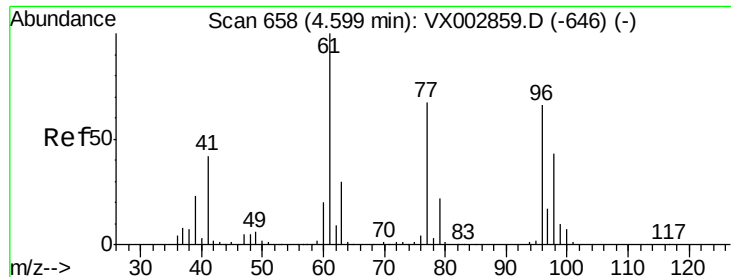
200

100

0

Time-->



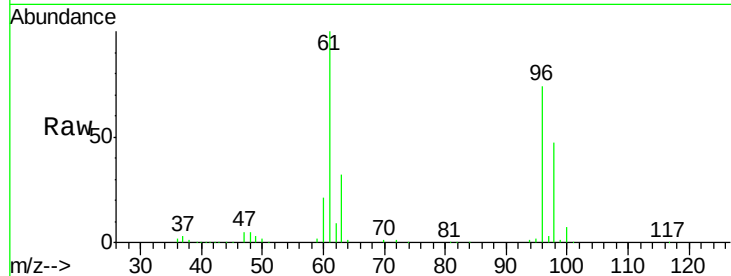


#27

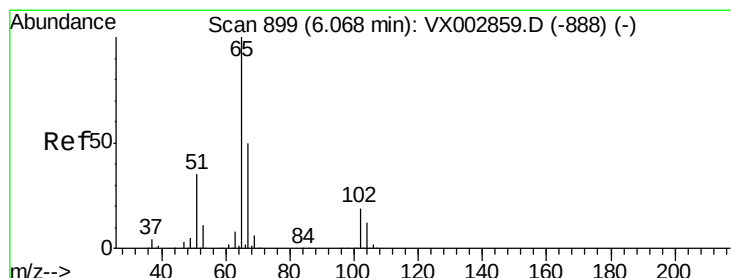
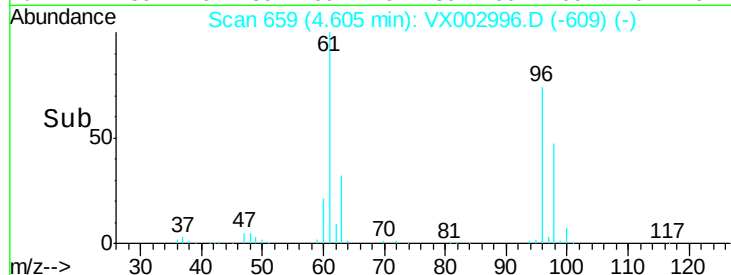
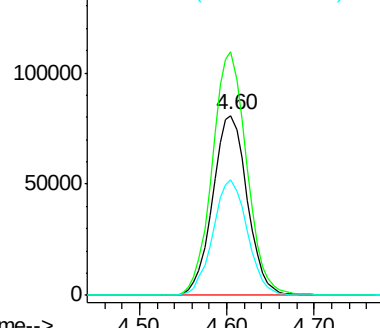
cis-1,2-Dichloroethene
Concen: 65.60 ug/l
RT: 4.60 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX002996.D
Acq: 28 Jun 2018 20:06

Instrument :
MSVOA_X
ClientSampleId :
WP021RW244-180620

Tot Ion	Ratio	Lower	Upper
96	100		
61	135.3	0.0	330.2
98	64.2	0.0	130.2



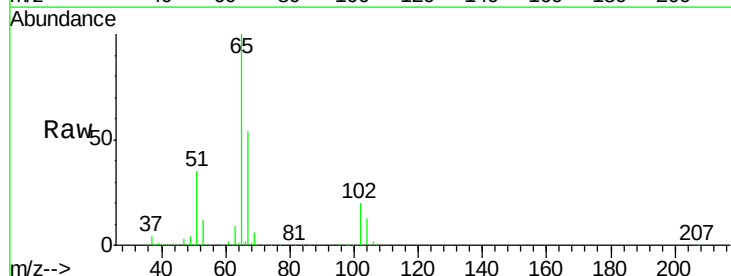
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



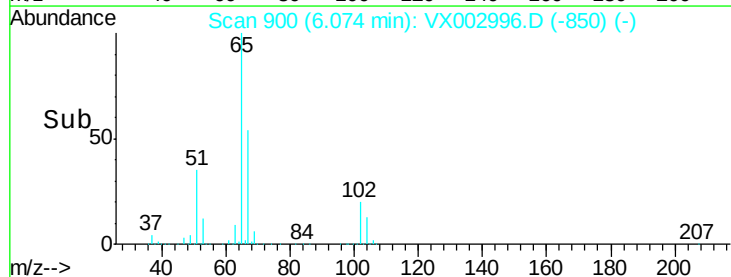
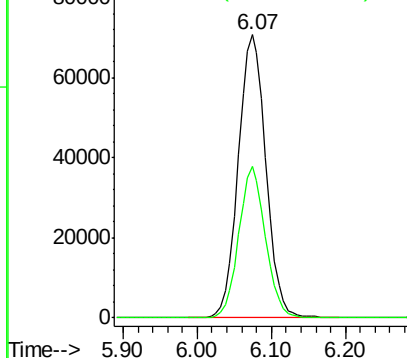
#33

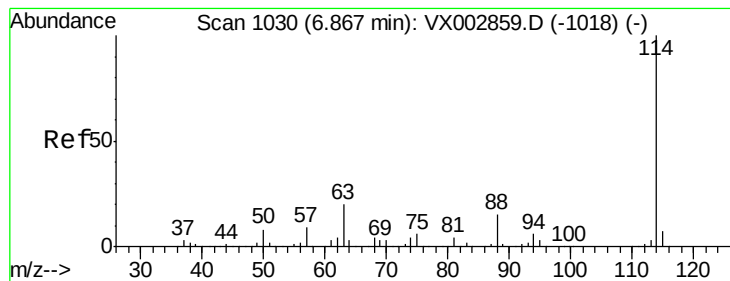
1,2-Dichloroethane-d4
Concen: 47.32 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.01 min
Lab File: VX002996.D
Acq: 28 Jun 2018 20:06

Tgt Ion	Ratio	Lower	Upper
65	100		
67	51.9	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: VX002996.D

Acq: 28 Jun 2018 20:06

Instrument :

MSVOA_X

ClientSampleId :

WP021RW244-180620

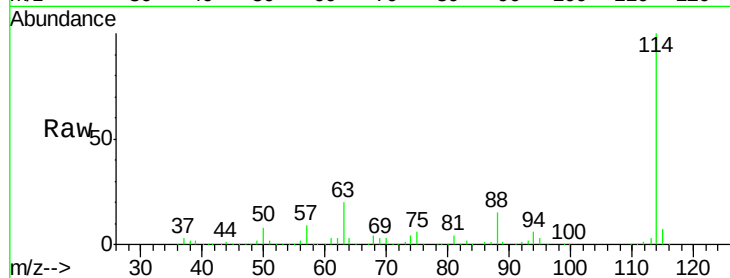
Tot Ion:114 Resp: 393157

Ion Ratio Lower Upper

114 100

63 20.4 0.0 41.4

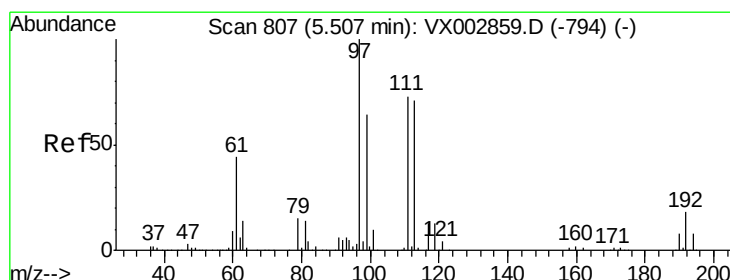
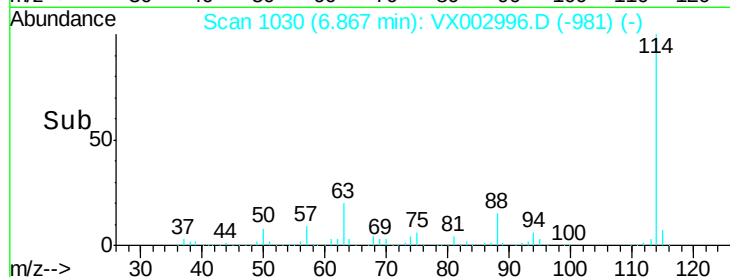
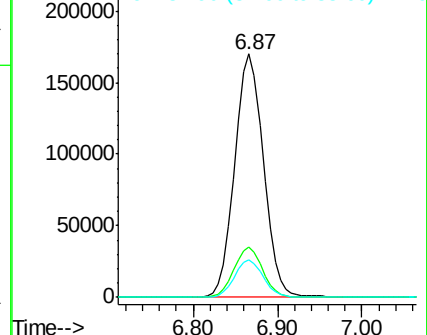
88 15.5 0.0 30.0



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: 48.23 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002996.D

Acq: 28 Jun 2018 20:06

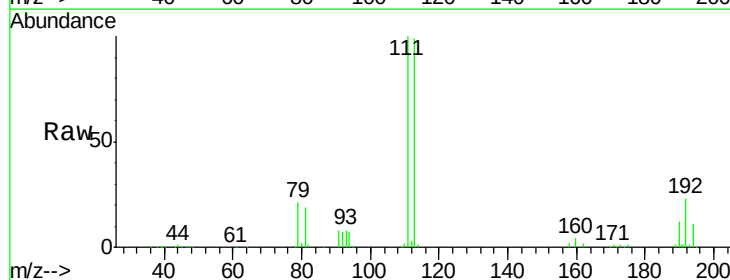
Tgt Ion:113 Resp: 150153

Ion Ratio Lower Upper

113 100

111 102.3 81.4 122.0

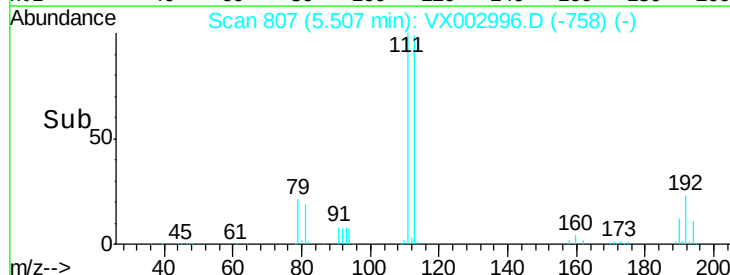
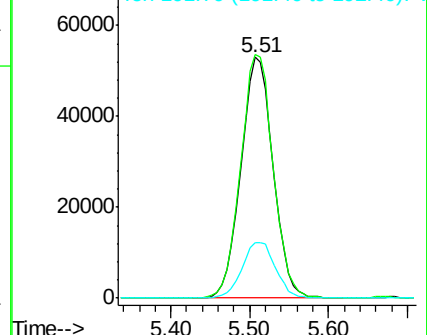
192 24.0 19.1 28.7

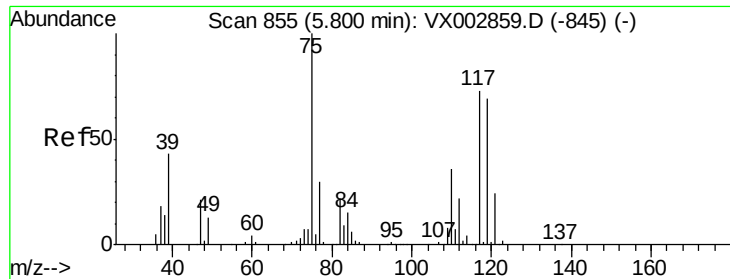


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

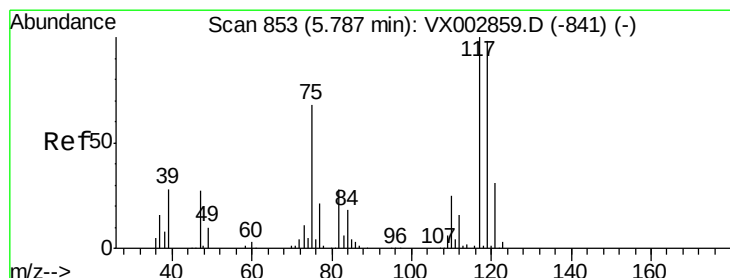
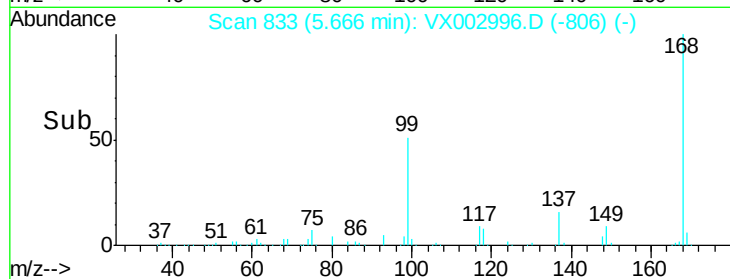
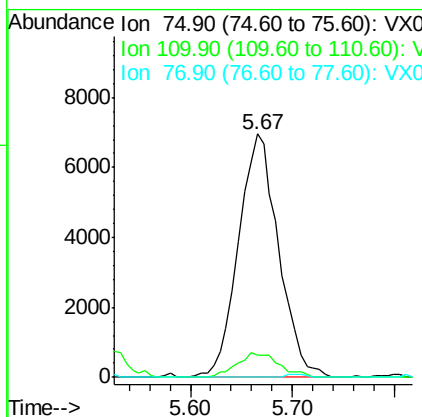
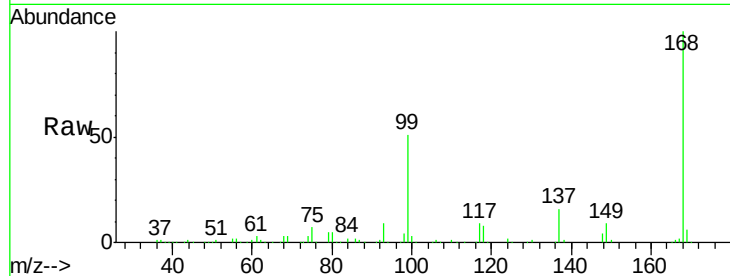




#36
 1,1-Dichloropropene
 Concen: 4.40 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002996.D
 Acq: 28 Jun 2018 20:06

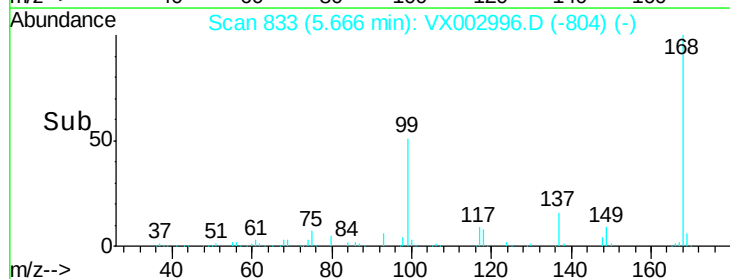
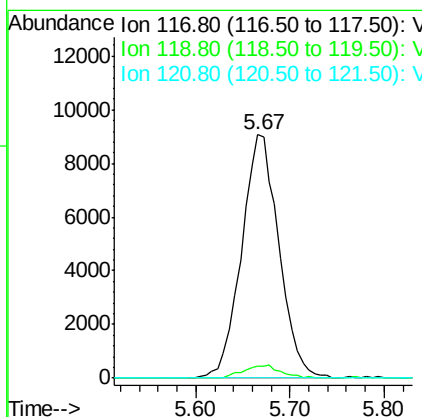
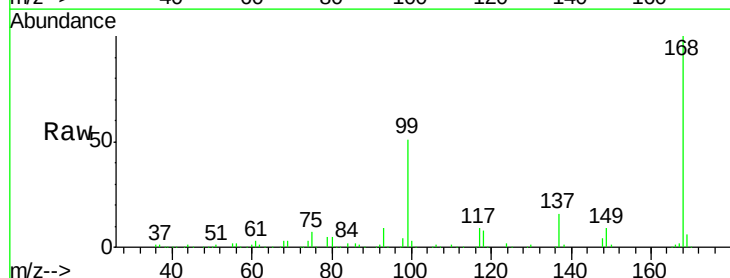
Instrument :
 MSVOA_X
 ClientSampleId :
 WP021RW244-180620

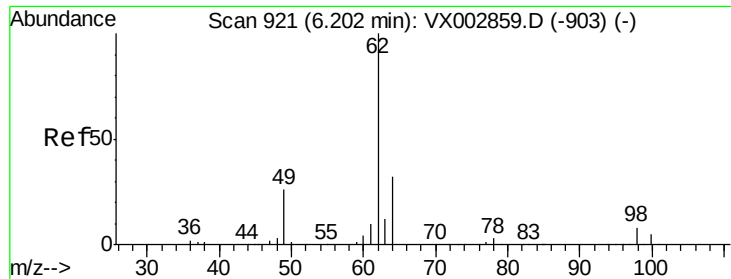
Tot Ion: 75 Resp: 18991
 Ion Ratio Lower Upper
 75 100
 110 10.7 18.1 54.4#
 77 0.0 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 5.31 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002996.D
 Acq: 28 Jun 2018 20:06

Tgt Ion: 117 Resp: 25145
 Ion Ratio Lower Upper
 117 100
 119 5.1 77.4 116.0#
 121 0.0 24.4 36.6#

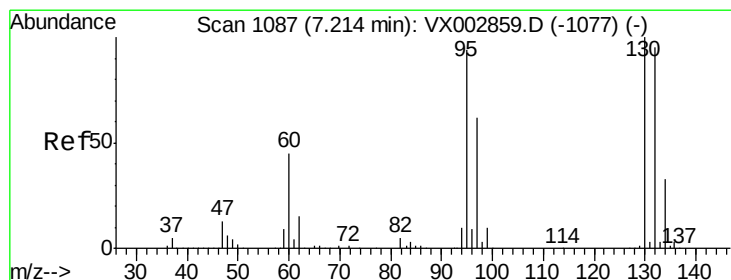
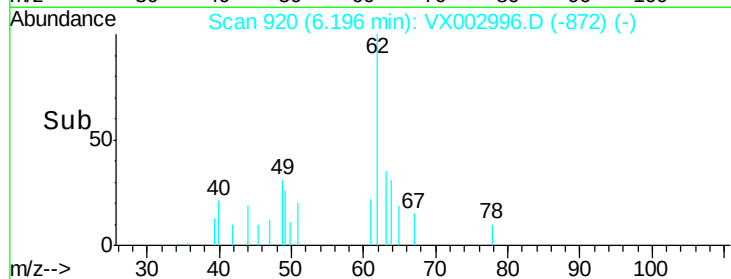
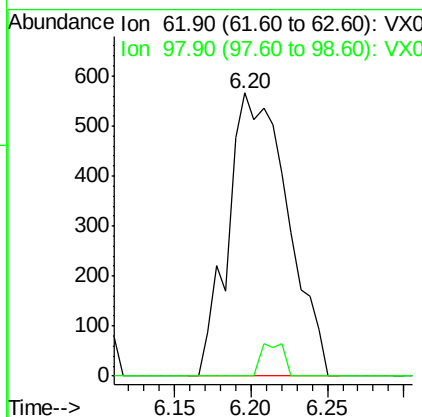
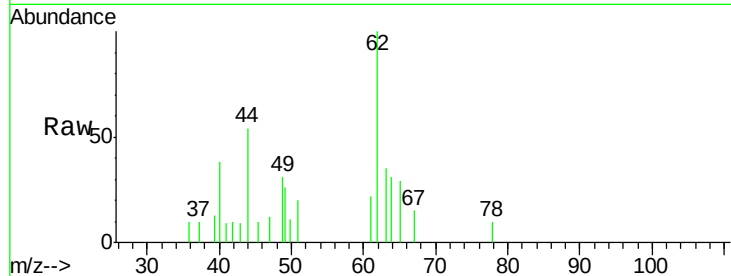




#42
 1,2-Dichloroethane
 Concen: 0.30 ug/l
 RT: 6.20 min Scan# 920
 Delta R.T. -0.01 min
 Lab File: VX002996.D
 Acq: 28 Jun 2018 20:06

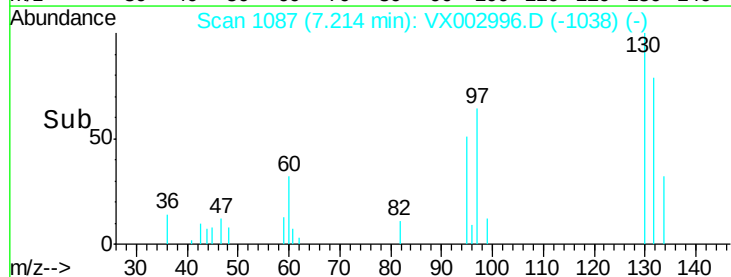
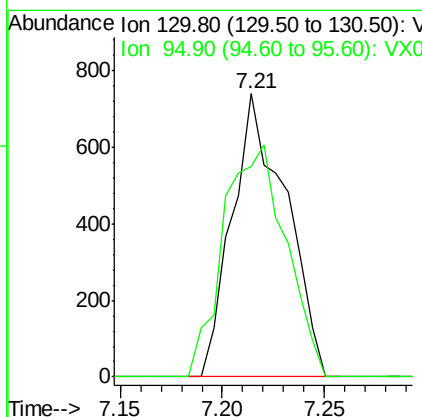
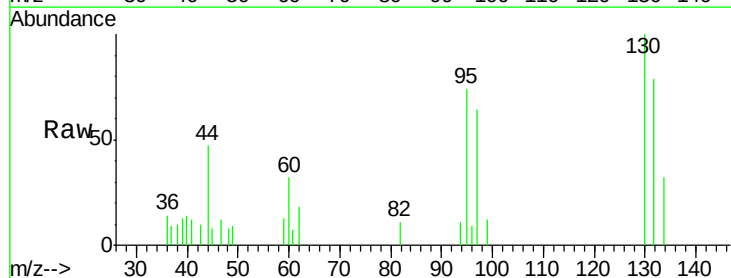
Instrument :
 MSVOA_X
 ClientSampleId :
 WP021RW244-180620

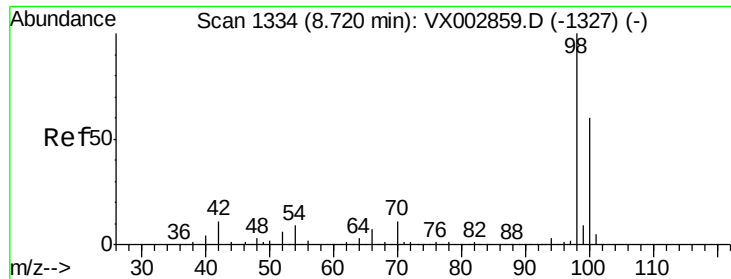
Tot Ion: 62 Resp: 1532
 Ion Ratio Lower Upper
 62 100
 98 0.0 0.0 16.6



#44
 Trichloroethene
 Concen: 0.36 ug/l
 RT: 7.21 min Scan# 1087
 Delta R.T. -0.00 min
 Lab File: VX002996.D
 Acq: 28 Jun 2018 20:06

Tgt Ion: 130 Resp: 1357
 Ion Ratio Lower Upper
 130 100
 95 74.3 0.0 185.4

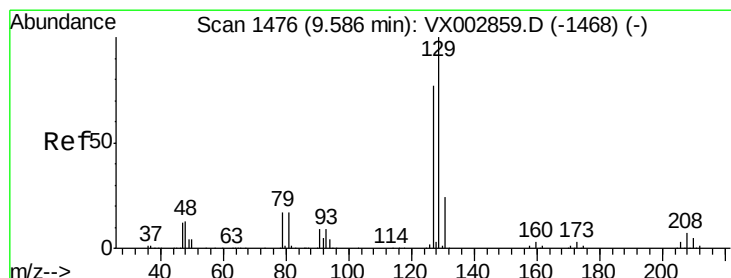
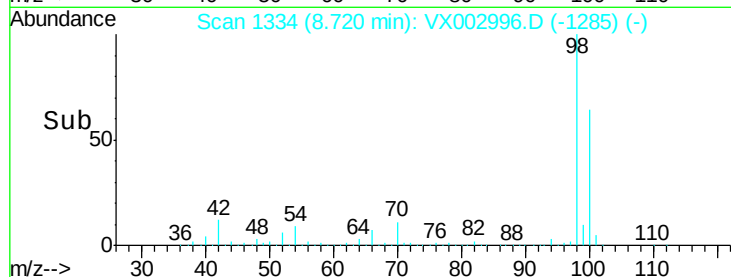
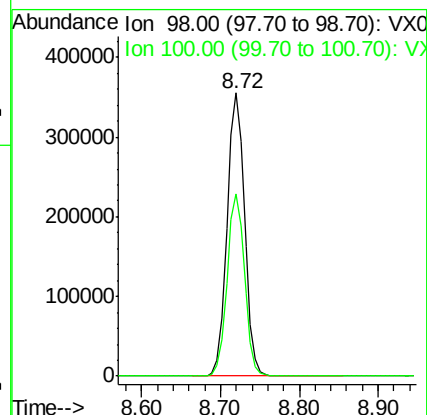
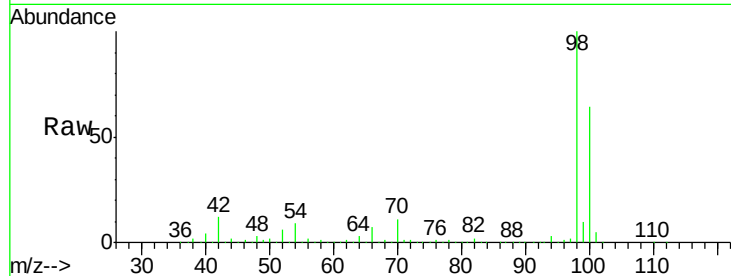




#50
Toluene-d8
Concen: 48.29 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002996.D
Acq: 28 Jun 2018 20:06

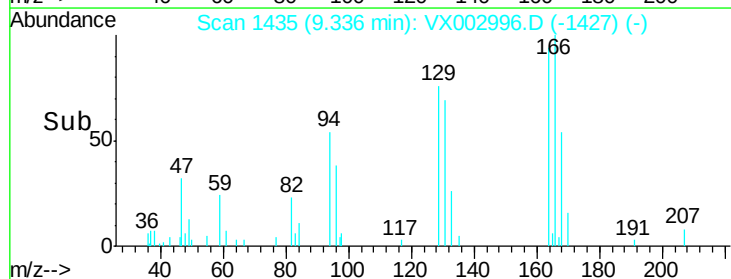
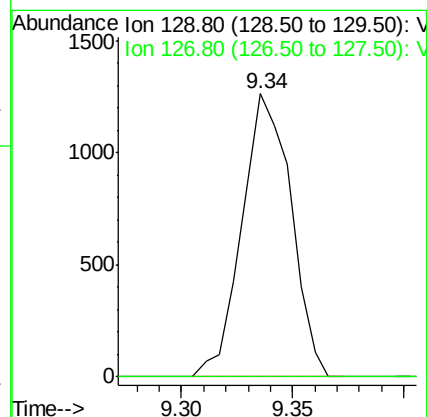
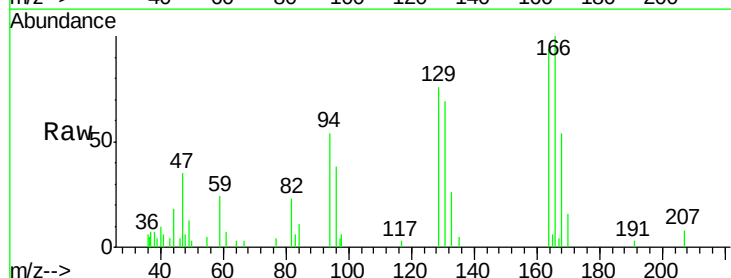
Instrument :
MSVOA_X
ClientSampleId :
WP021RW244-180620

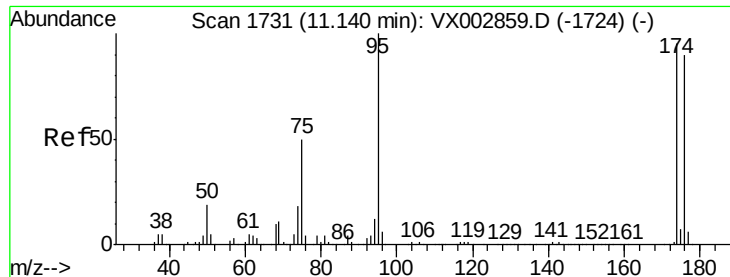
Tot Ion: 98 Resp: 549038
Ion Ratio Lower Upper
98 100
100 63.8 50.9 76.3



#60
Dibromochloromethane
Concen: 0.56 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.25 min
Lab File: VX002996.D
Acq: 28 Jun 2018 20:06

Tgt Ion: 129 Resp: 1942
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#

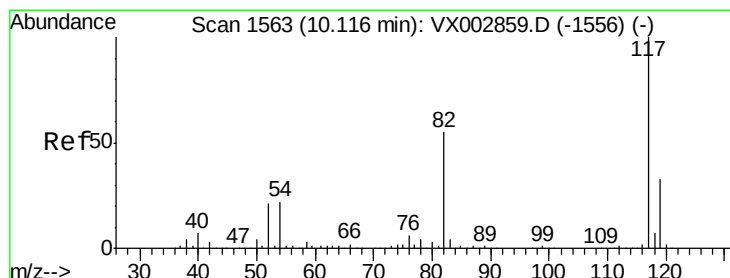
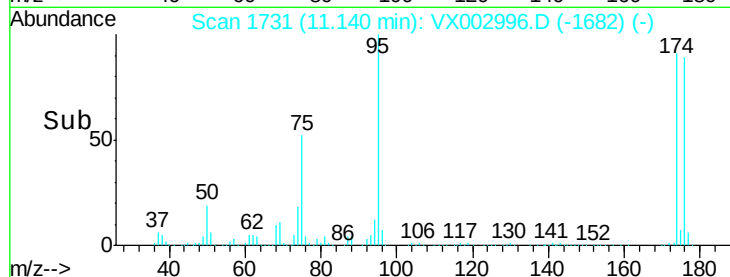
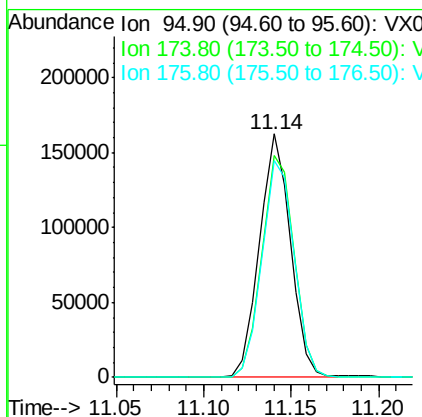
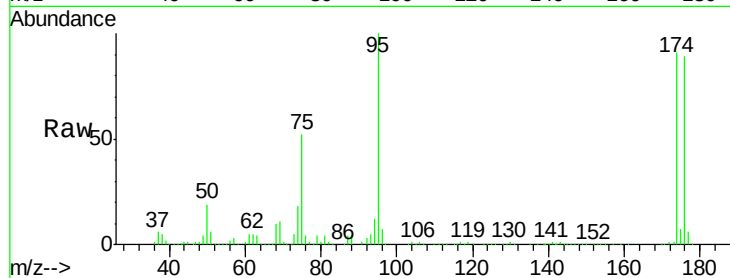




#62
4-Bromofluorobenzene
Concen: 45.62 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002996.D
Acq: 28 Jun 2018 20:06

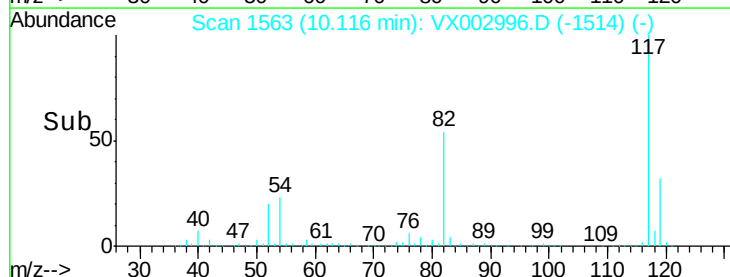
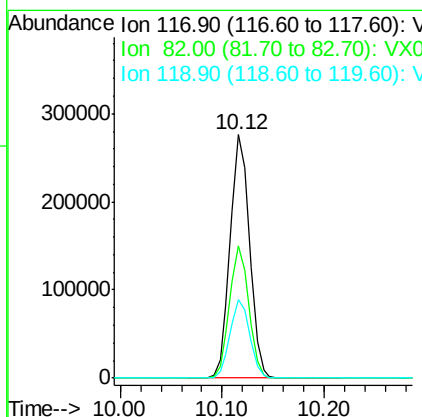
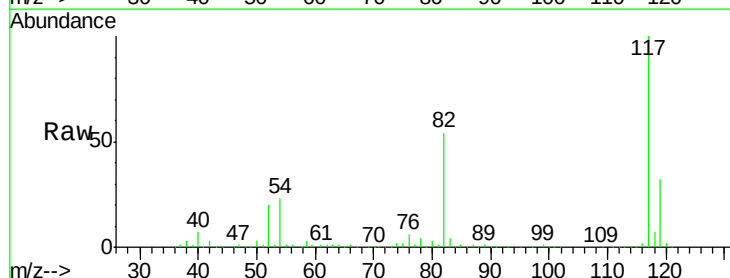
Instrument :
MSVOA_X
ClientSampleId :
WP021RW244-180620

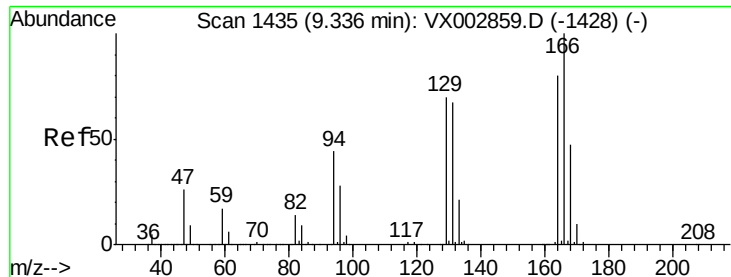
Tot Ion: 95 Resp: 200023
Ion Ratio Lower Upper
95 100
174 95.1 0.0 187.4
176 92.8 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002996.D
Acq: 28 Jun 2018 20:06

Tgt Ion: 117 Resp: 363022
Ion Ratio Lower Upper
117 100
82 54.2 45.0 67.4
119 32.1 25.8 38.6

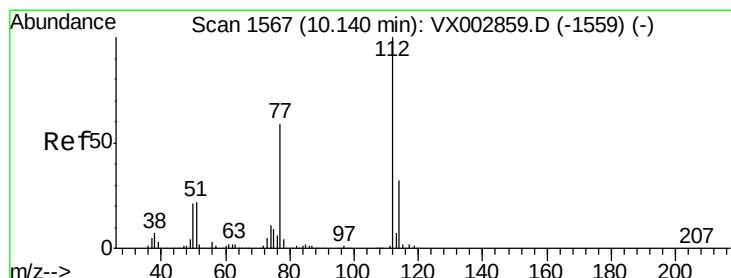
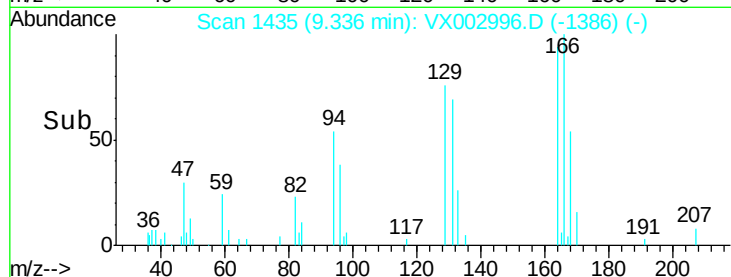
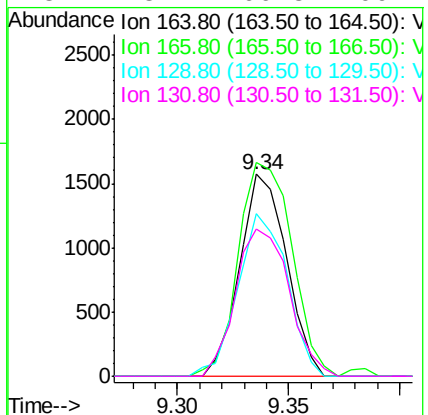
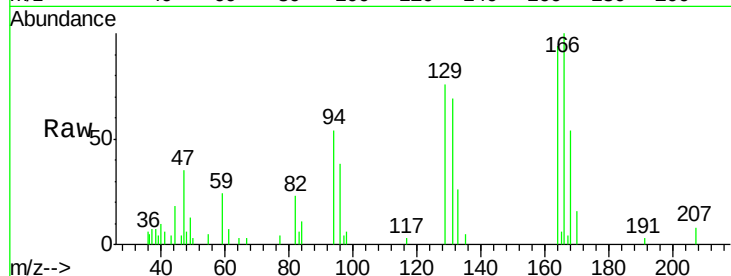




#64
Tetrachloroethene
Concen: 0.57 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.00 min
Lab File: VX002996.D
Acq: 28 Jun 2018 20:06

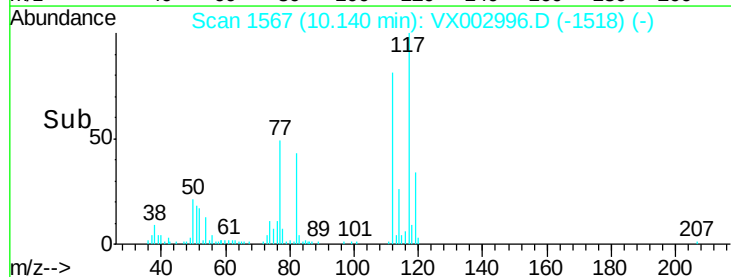
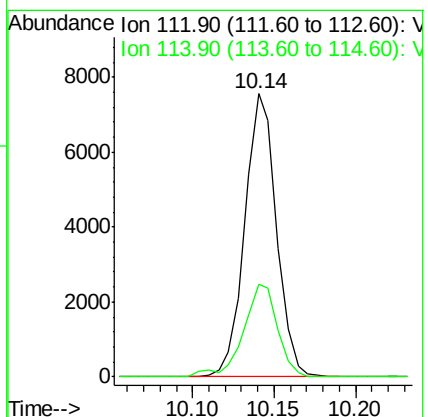
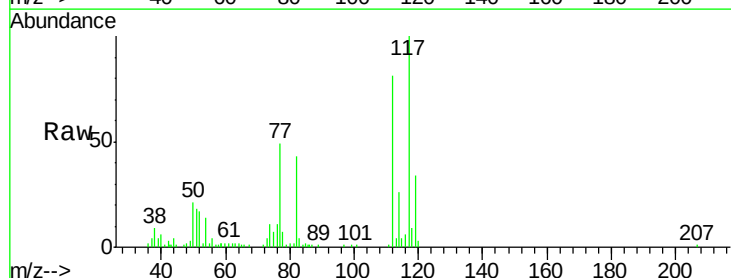
Instrument :
MSVOA_X
ClientSampleId :
WP021RW244-180620

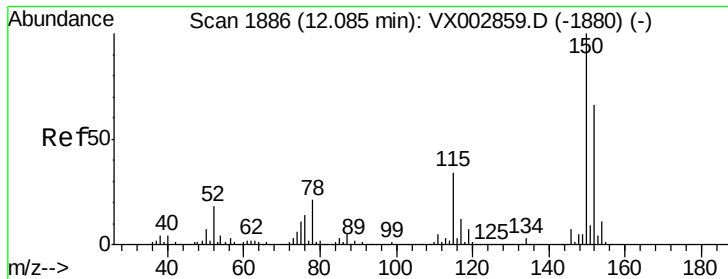
Tot Ion:164 Resp: 2313
Ion Ratio Lower Upper
164 100
166 105.9 102.9 154.3
129 80.4 68.6 102.8
131 73.1 66.8 100.2



#65
Chlorobenzene
Concen: 1.11 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX002996.D
Acq: 28 Jun 2018 20:06

Tgt Ion:112 Resp: 10228
Ion Ratio Lower Upper
112 100
114 32.7 25.3 37.9

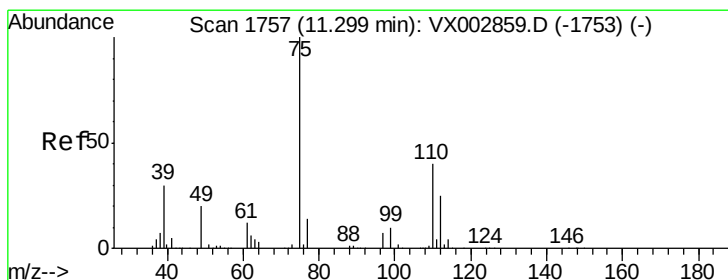
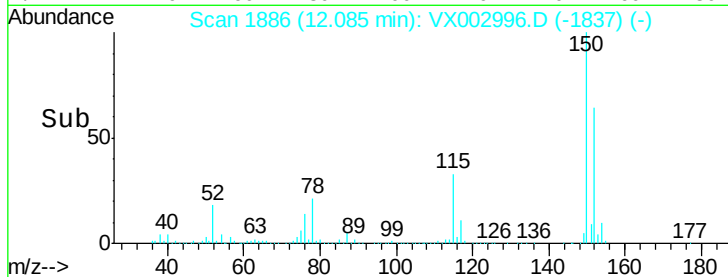
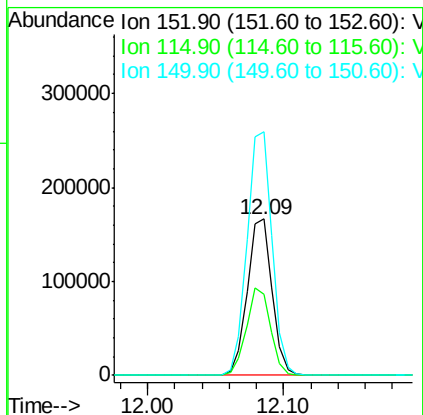
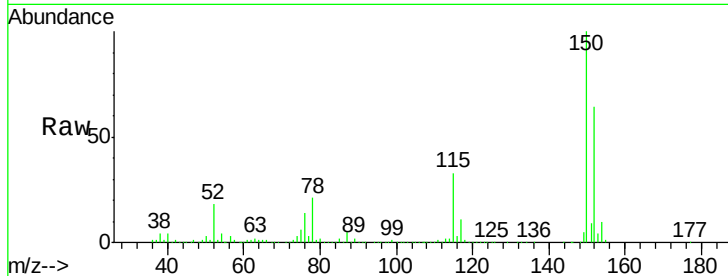




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 12.09 min Scan# 1886
 Delta R.T. -0.00 min
 Lab File: VX002996.D
 Acq: 28 Jun 2018 20:06

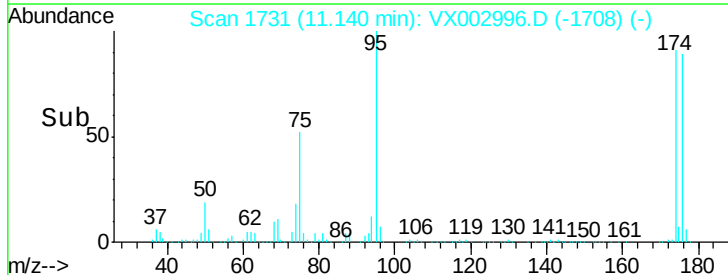
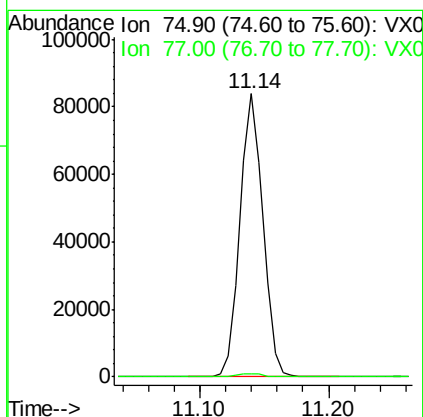
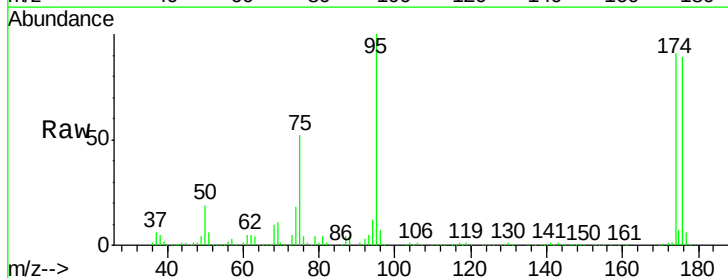
Instrument :
 MSVOA_X
 ClientSampleId :
 WP021RW244-180620

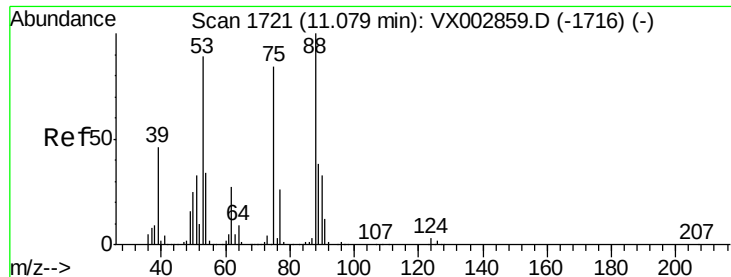
Tot Ion	Ratio	Lower	Upper
152	100		
115	54.5	40.1	120.2
150	157.5	0.0	347.2



#76
 1,2,3-Trichloropropane
 Concen: 26.98 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002996.D
 Acq: 28 Jun 2018 20:06

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.2	22.8	68.3

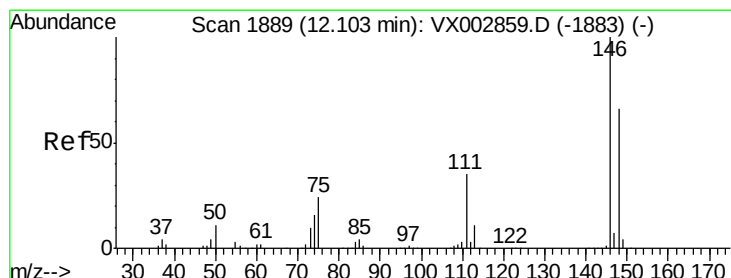
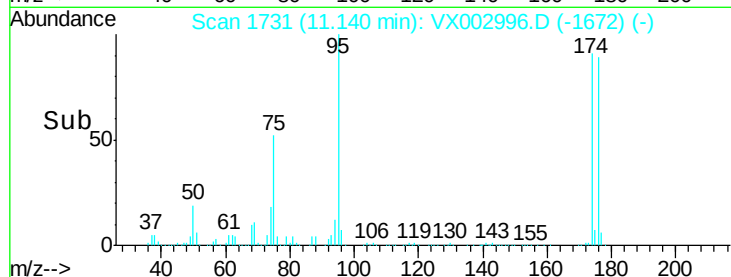
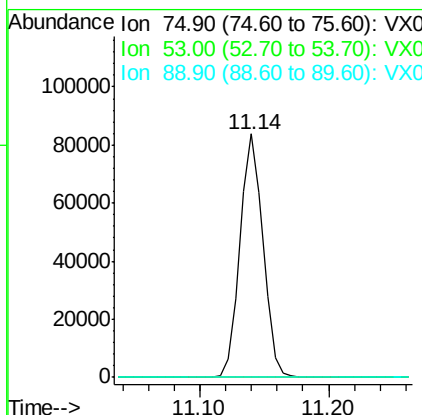
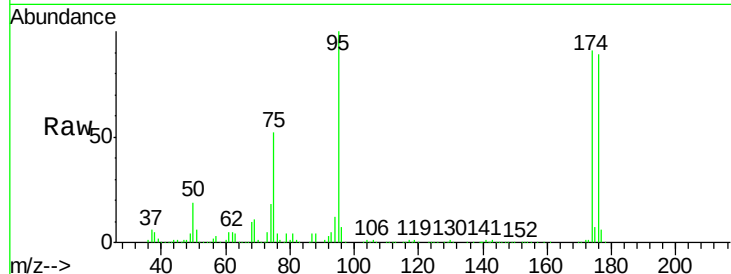




#81
trans-1,4-Dichloro-2-butene
Concen: 76.38 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX002996.D
Acq: 28 Jun 2018 20:06

Instrument :
MSVOA_X
ClientSampleId :
WP021RW244-180620

Tot Ion: 75 Resp: 103716
Ion Ratio Lower Upper
75 100
53 0.1 86.8 130.2#
89 0.0 38.2 57.2#



#88
1,4-Dichlorobenzene
Concen: 0.28 ug/l
RT: 12.10 min Scan# 1889
Delta R.T. -0.00 min
Lab File: VX002996.D
Acq: 28 Jun 2018 20:06

Tgt Ion: 146 Resp: 2136
Ion Ratio Lower Upper
146 100
111 0.0 18.7 56.1#
148 95.4 32.4 97.0

