

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100518\
 Data File : VX005102.D
 Acq On : 06 Oct 2018 08:13
 Operator : JC/MD
 Sample : J5224-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FA18-QBC5-9002

Quant Time: Oct 08 00:57:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	210102	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	317653	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	313627	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	177636	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	165864	55.26	ug/l	0.00
Spiked Amount			Recovery	=	110.52%	
35) Dibromofluoromethane	5.50	113	142803	53.04	ug/l	0.00
Spiked Amount			Recovery	=	106.08%	
50) Toluene-d8	8.71	98	457622	51.13	ug/l	0.00
Spiked Amount			Recovery	=	102.26%	
62) 4-Bromofluorobenzene	11.14	95	165832	51.43	ug/l	0.00
Spiked Amount			Recovery	=	102.86%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	2080	0.638	ug/l	99
5) Bromomethane	1.64	94	466	0.241	ug/l #	60
6) Chloroethane	1.72	64	67	Below Cal	#	56
11) Tert butyl alcohol	3.02	59	2275	2.711	ug/l #	74
12) 1,1-Dichloroethene	2.37	96	766	0.336	ug/l	99
13) Acrolein	2.28	56	135	0.226	ug/l #	60
16) Acetone	2.45	43	4239	2.419	ug/l #	83
20) Methylene Chloride	2.86	84	168	Below Cal	#	64
21) trans-1,2-Dichloroethene	3.17	96	1361	0.546	ug/l #	82
25) 2-Butanone	4.71	43	1414	0.547	ug/l	92
27) cis-1,2-Dichloroethene	4.59	96	7433	2.670	ug/l	89
29) Tetrahydrofuran	5.17	42	3197	1.992	ug/l #	88
31) Cyclohexane	5.66	56	3978	1.042	ug/l #	28
36) 1,1-Dichloropropene	5.66	75	14770	4.021	ug/l #	46
38) Carbon Tetrachloride	5.67	117	19473	5.043	ug/l #	18
44) Trichloroethene	7.21	130	9067	3.207	ug/l	97
56) Ethyl methacrylate	9.25	69	21	2.866	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.09	63	45	14.260	ug/l #	49
60) Dibromochloromethane	9.34	129	8158	2.947	ug/l #	10
64) Tetrachloroethene	9.34	164	9450	3.061	ug/l	90
74) N-amyl acetate	10.92	43	21	1.751	ug/l #	43
76) 1,2,3-Trichloropropane	11.14	75	82962	20.837	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	103	Below Cal	#	29
81) trans-1,4-Dichloro-2-buten	11.14	75	82962	56.559	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	213	Below Cal		94
95) Naphthalene	13.83	128	379	0.745	ug/l #	82

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX005102.D

Acq: 06 Oct 2018 08:13

Instrument :

MSVOA_X

ClientSampleId :

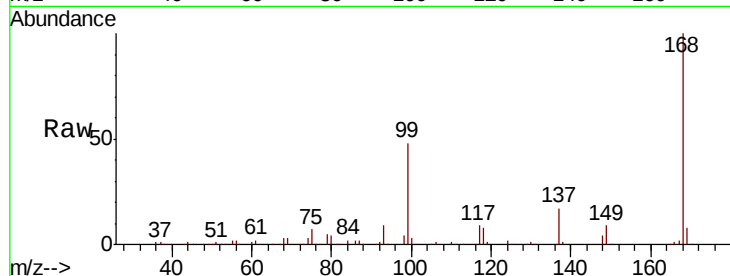
FA18-QBC5-9002

Tot Ion:168 Resp: 210102

Ion Ratio Lower Upper

168 100

99 47.8 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

40000

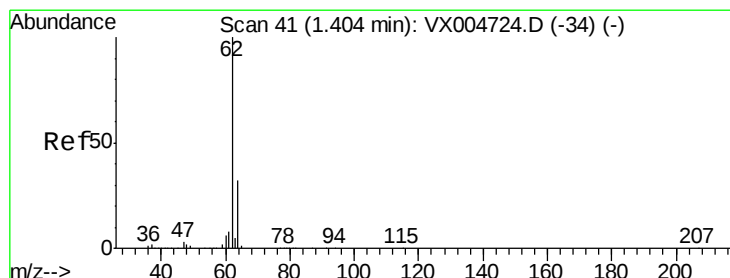
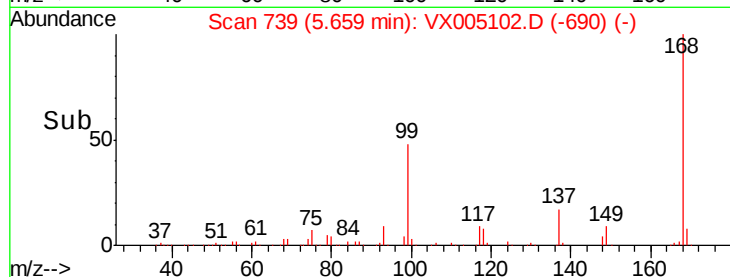
20000

0

Time-->

5.60

5.70



#4

Vinyl Chloride

Concen: 0.638 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.00 min

Lab File: VX005102.D

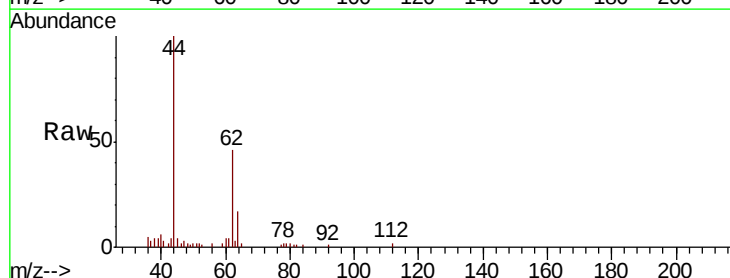
Acq: 06 Oct 2018 08:13

Tgt Ion: 62 Resp: 2080

Ion Ratio Lower Upper

62 100

64 32.2 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

2000

1500

1000

500

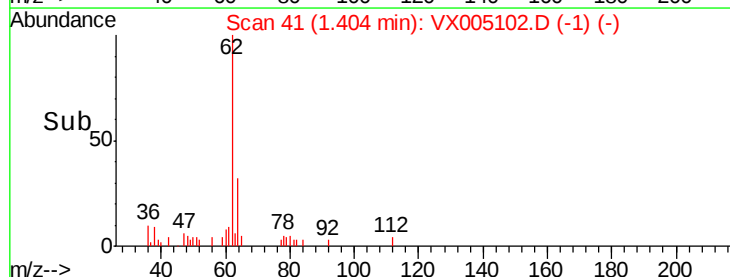
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Time-->

1.35

1.40

1.45





#5

Bromomethane

Concen: 0.241 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005102.D

Acq: 06 Oct 2018 08:13

Instrument :

MSVOA_X

ClientSampleId :

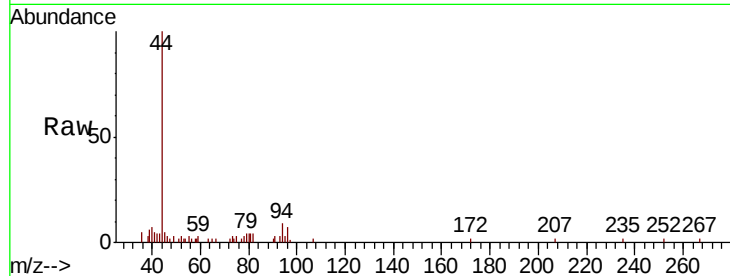
FA18-QBC5-9002

Tot Ion: 94 Resp: 466

Ion Ratio Lower Upper

94 100

96 59.8 79.5 119.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

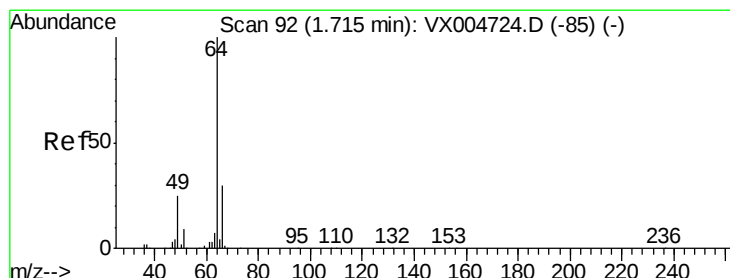
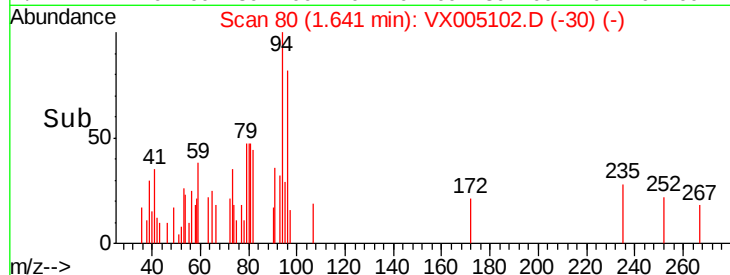
300

200

100

0

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX005102.D

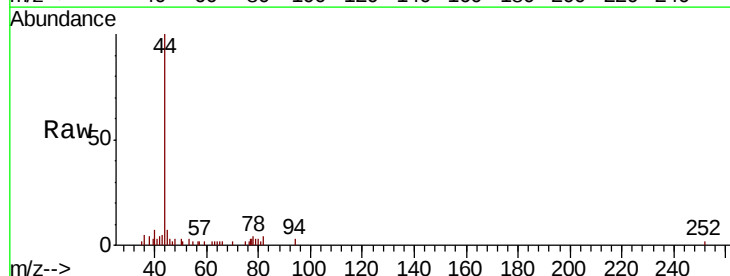
Acq: 06 Oct 2018 08:13

Tgt Ion: 64 Resp: 67

Ion Ratio Lower Upper

64 100

66 6.1 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

100

80

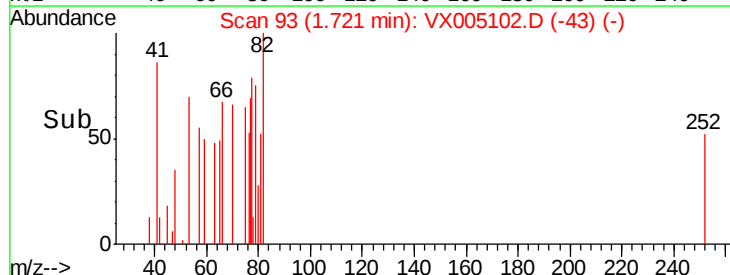
60

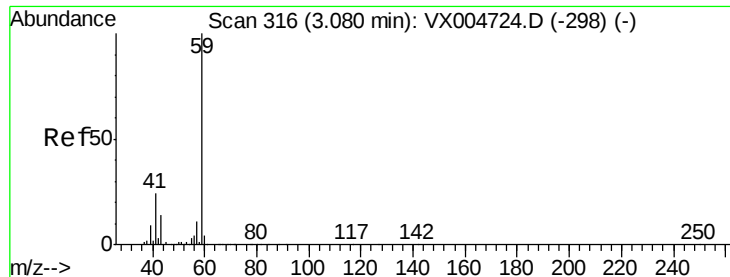
40

20

0

Time-->

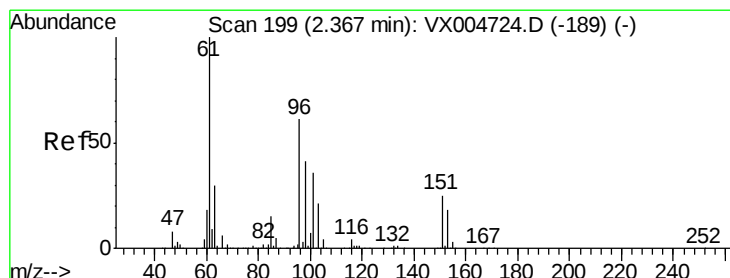
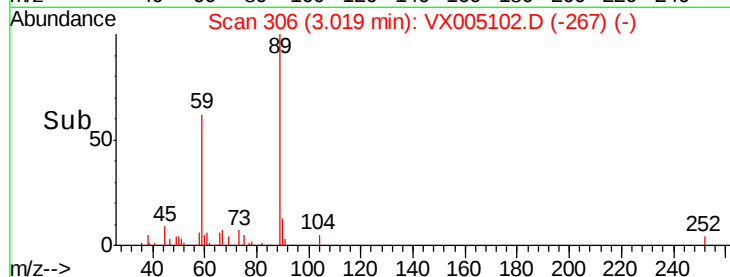
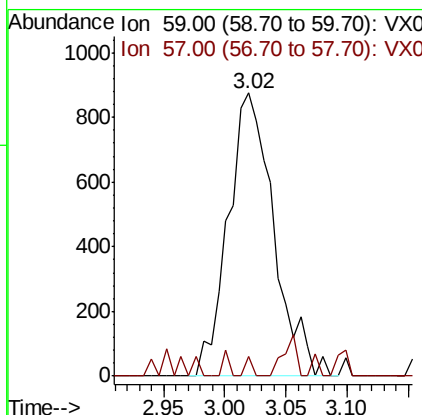
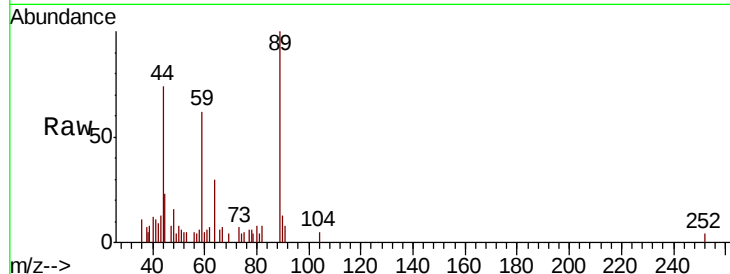




#11
Tert butyl alcohol
Concen: 2.711 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005102.D
Acq: 06 Oct 2018 08:13

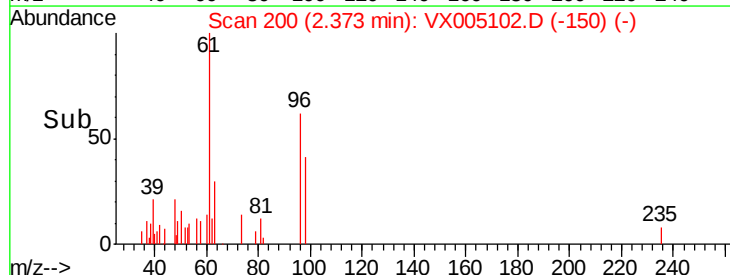
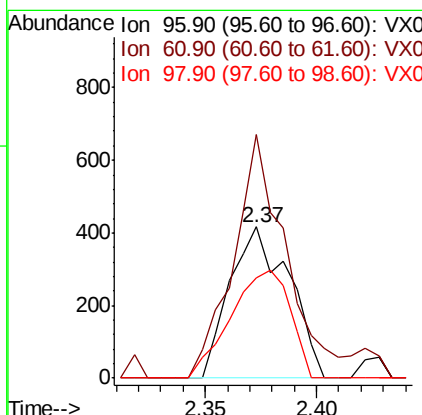
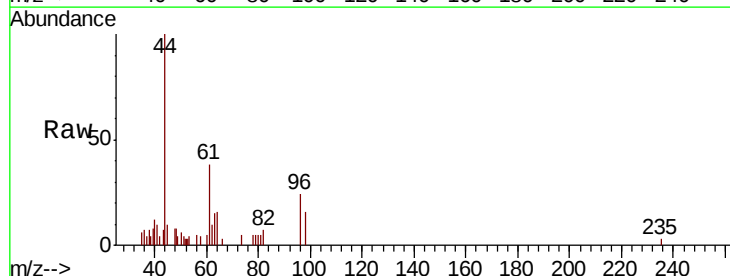
Instrument :
MSVOA_X
ClientSampleId :
FA18-QBC5-9002

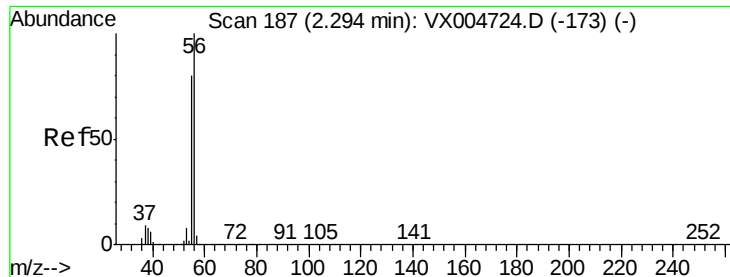
Tot Ion: 59 Resp: 2275
Ion Ratio Lower Upper
59 100
57 1.0 8.6 12.8#



#12
1,1-Dichloroethene
Concen: 0.336 ug/l
RT: 2.37 min Scan# 200
Delta R.T. 0.01 min
Lab File: VX005102.D
Acq: 06 Oct 2018 08:13

Tgt Ion: 96 Resp: 766
Ion Ratio Lower Upper
96 100
61 160.9 130.2 195.4
98 65.9 53.4 80.0





#13

Acrolein

Concen: 0.226 ug/l

RT: 2.28 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX005102.D

Acq: 06 Oct 2018 08:13

Instrument :

MSVOA_X

ClientSampleId :

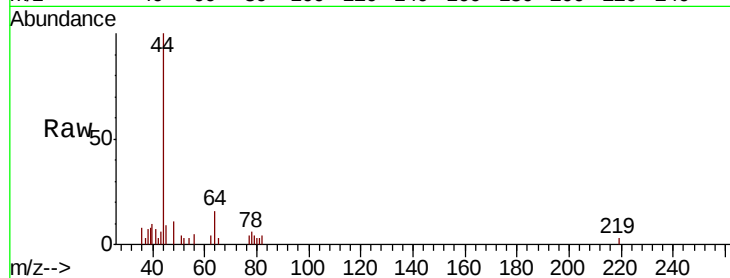
FA18-QBC5-9002

Tot Ion: 56 Resp: 135

Ion Ratio Lower Upper

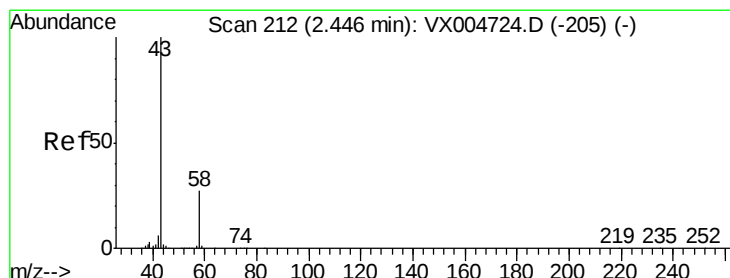
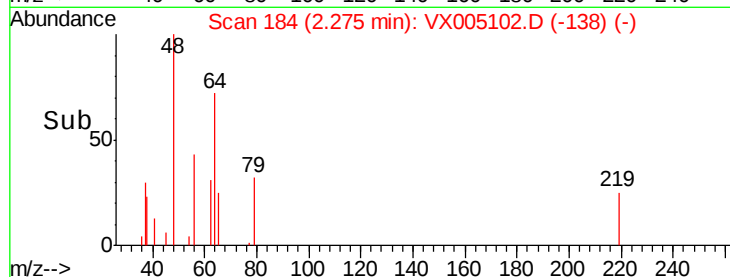
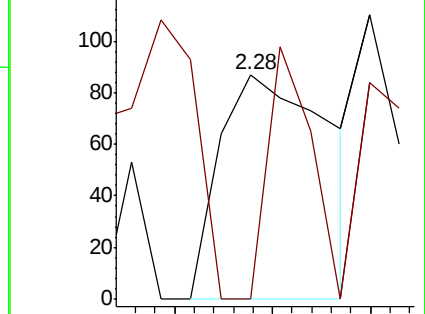
56 100

55 44.4 63.4 95.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 2.419 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005102.D

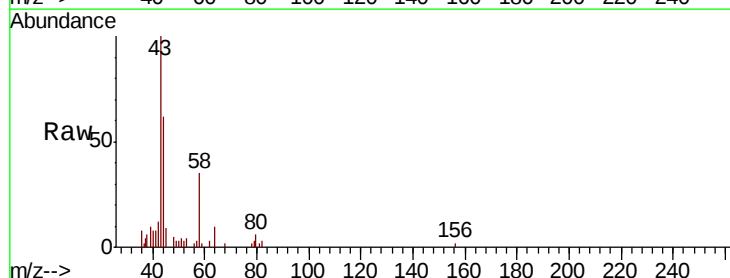
Acq: 06 Oct 2018 08:13

Tgt Ion: 43 Resp: 4239

Ion Ratio Lower Upper

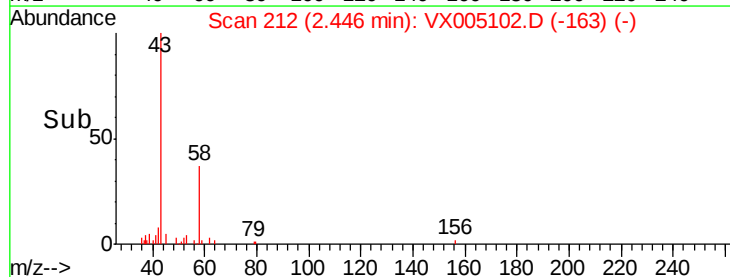
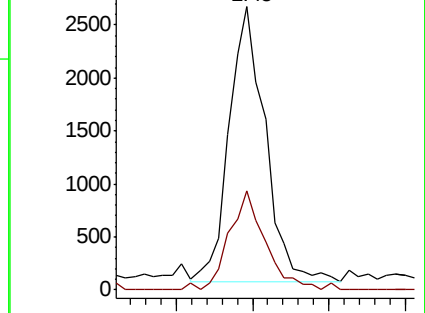
43 100

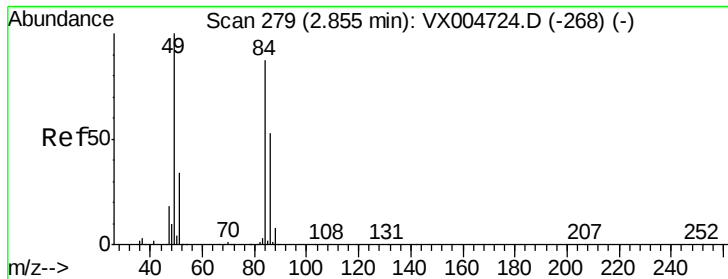
58 36.1 21.8 32.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

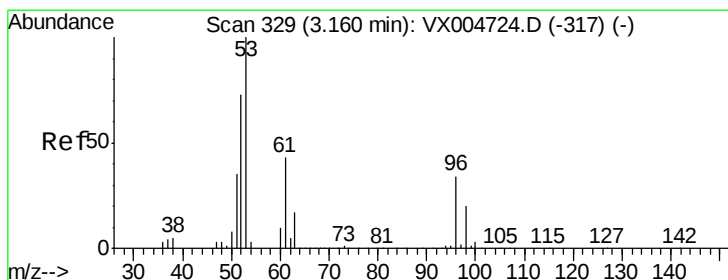
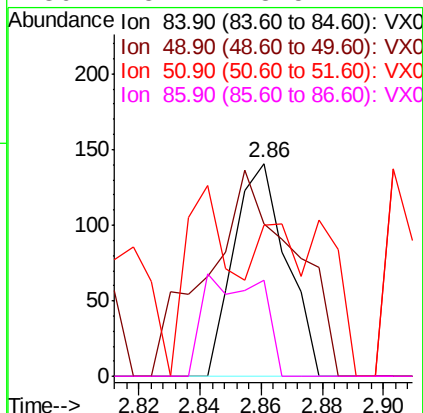
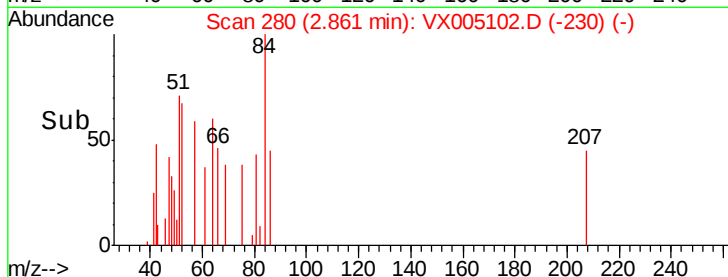
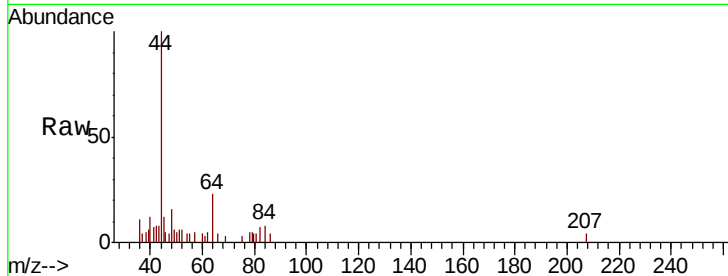




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005102.D
Acq: 06 Oct 2018 08:13

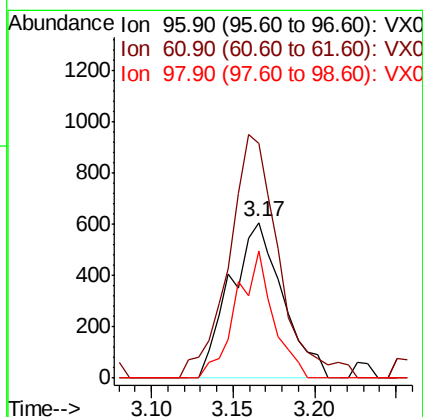
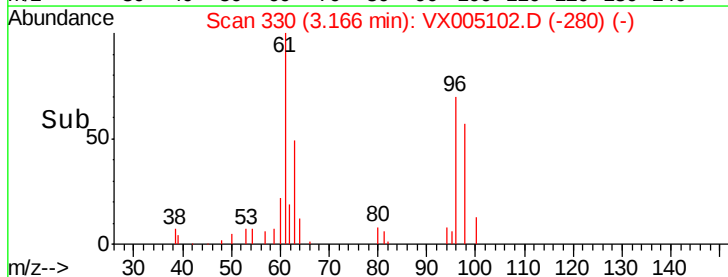
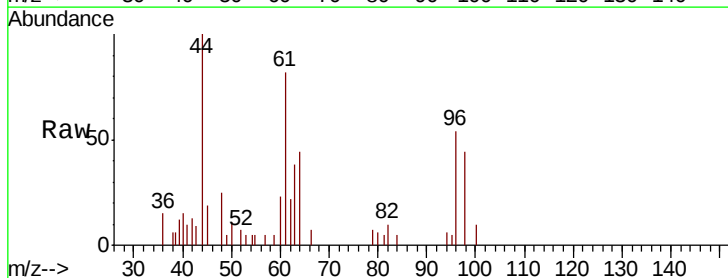
Instrument :
MSVOA_X
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FA18-QBC5-9002

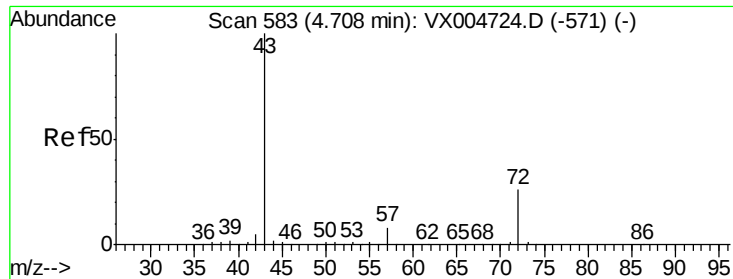
Tot Ion: 84 Resp: 168
Ion Ratio Lower Upper
84 100
49 71.6 92.3 138.5#
51 11.3 31.8 47.6#
86 45.4 48.5 72.7#



#21
trans-1,2-Dichloroethene
Concen: 0.546 ug/l
RT: 3.17 min Scan# 330
Delta R.T. 0.01 min
Lab File: VX005102.D
Acq: 06 Oct 2018 08:13

Tgt Ion: 96 Resp: 1361
Ion Ratio Lower Upper
96 100
61 140.8 101.0 151.6
98 81.4 47.2 70.8#

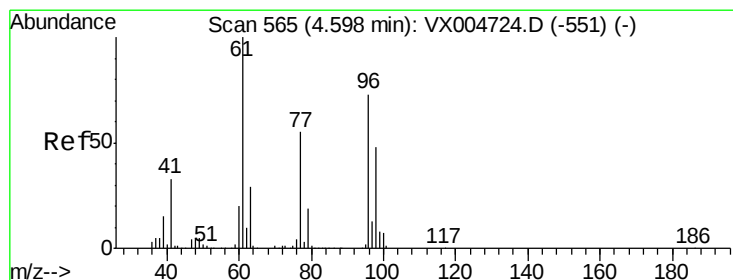
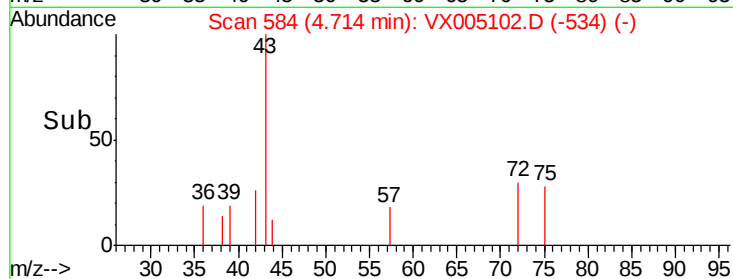
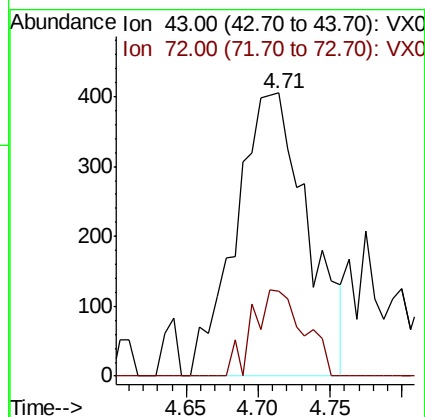
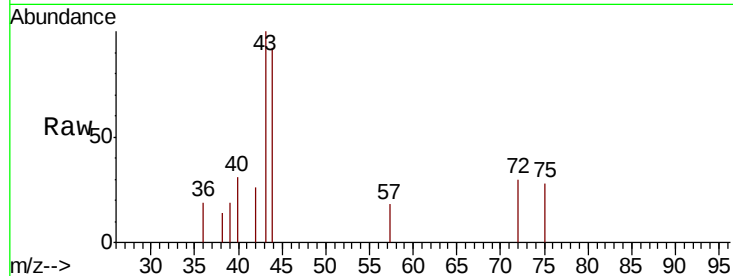




#25
2-Butanone
Concen: 0.547 ug/l
RT: 4.71 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX005102.D
Acq: 06 Oct 2018 08:13

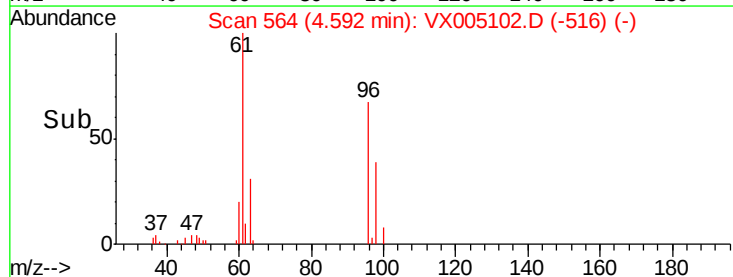
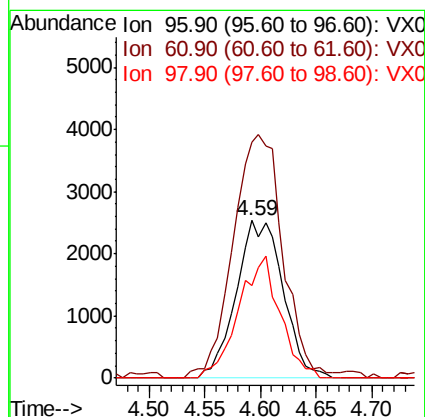
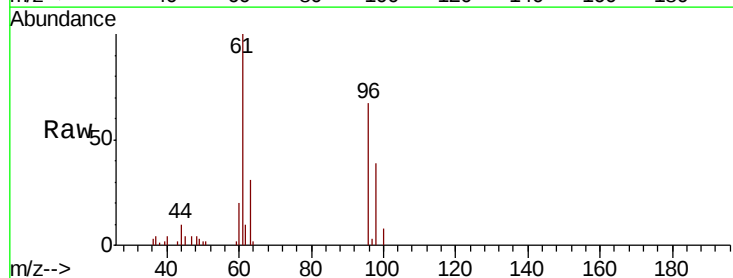
Instrument :
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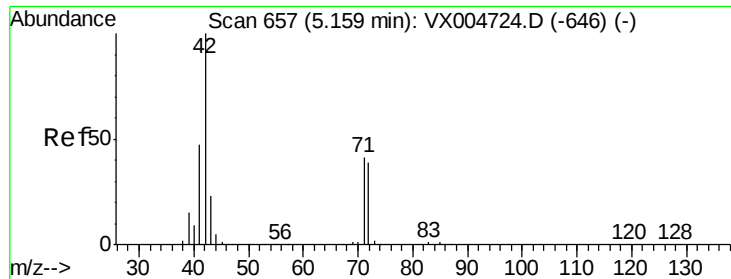
Tot Ion: 43 Resp: 1414
Ion Ratio Lower Upper
43 100
72 29.9 20.8 31.2



#27
cis-1,2-Dichloroethene
Concen: 2.670 ug/l
RT: 4.59 min Scan# 564
Delta R.T. -0.01 min
Lab File: VX005102.D
Acq: 06 Oct 2018 08:13

Tgt Ion: 96 Resp: 7433
Ion Ratio Lower Upper
96 100
61 163.4 0.0 285.8
98 68.1 0.0 136.2

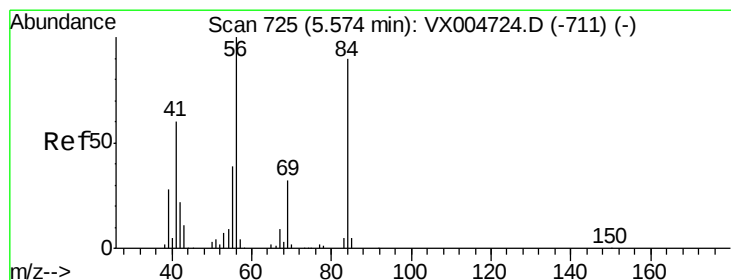
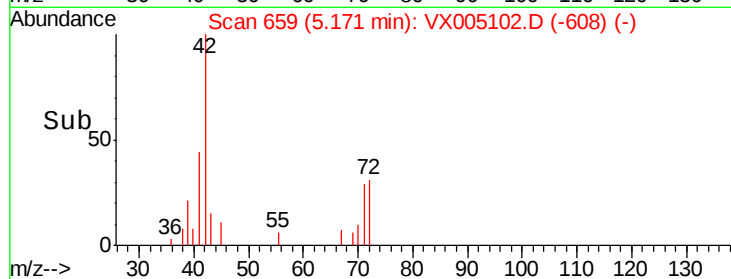
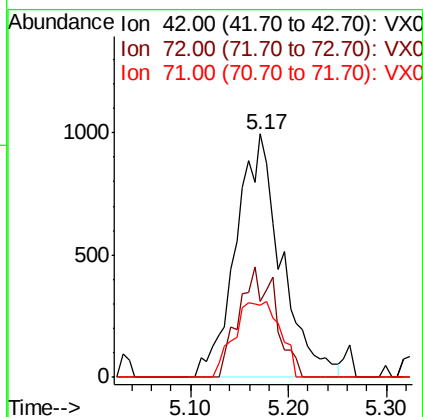
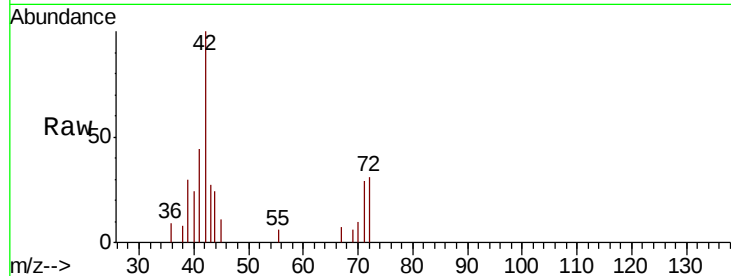




#29
Tetrahydrofuran
Concen: 1.992 ug/l
RT: 5.17 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX005102.D
Acq: 06 Oct 2018 08:13

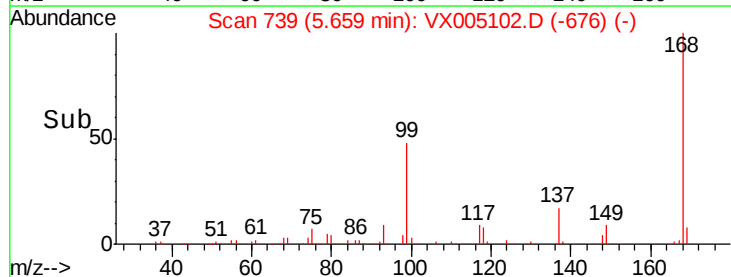
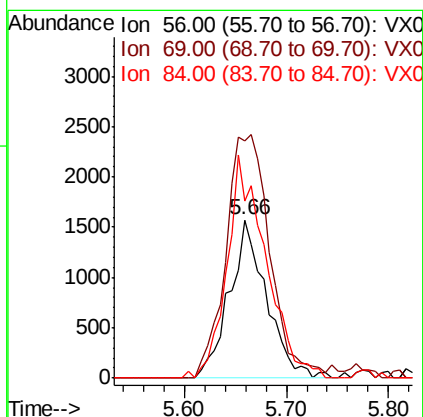
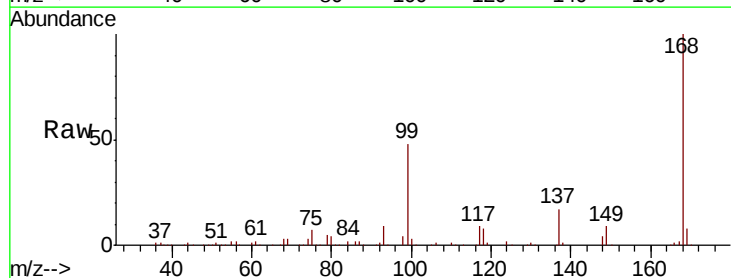
Instrument :
MSVOA_X
ClientSampleId :
FA18-QBC5-9002

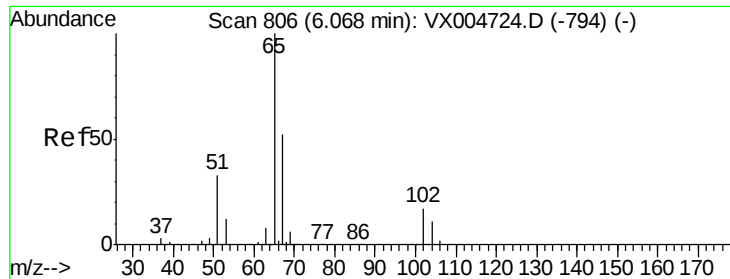
Tot Ion: 42 Resp: 3197
Ion Ratio Lower Upper
42 100
72 36.5 33.7 50.5
71 31.2 32.2 48.4#



#31
Cyclohexane
Concen: 1.042 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX005102.D
Acq: 06 Oct 2018 08:13

Tgt Ion: 56 Resp: 3978
Ion Ratio Lower Upper
56 100
69 150.1 25.9 38.9#
84 111.4 71.9 107.9#





#33

1,2-Dichloroethane-d4

Concen: 55.264 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.01 min

Lab File: VX005102.D

Acq: 06 Oct 2018 08:13

Instrument :

MSVOA_X

ClientSampleId :

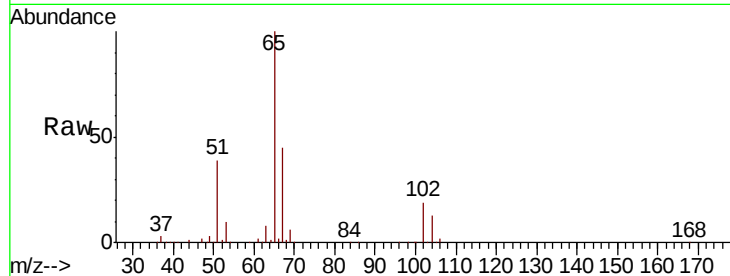
FA18-QBC5-9002

Tot Ion: 65 Resp: 165864

Ion Ratio Lower Upper

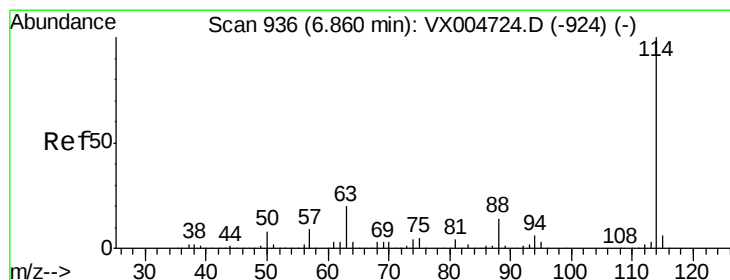
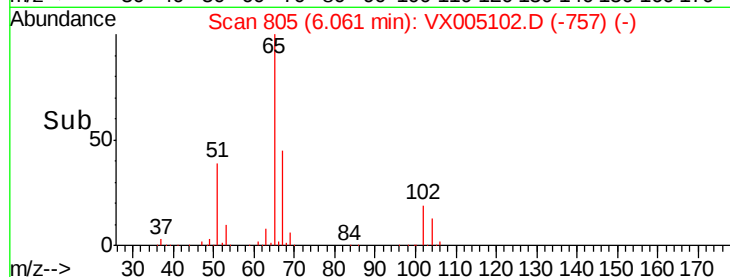
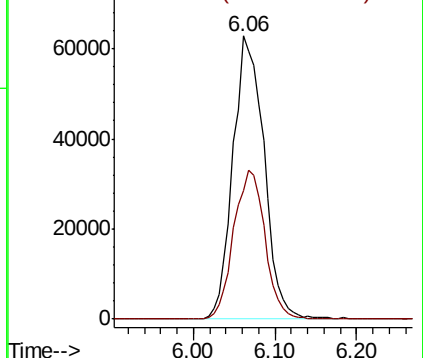
65 100

67 52.9 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX005102.D

Acq: 06 Oct 2018 08:13

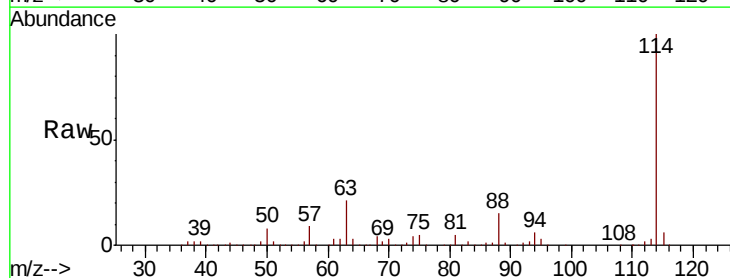
Tgt Ion: 114 Resp: 317653

Ion Ratio Lower Upper

114 100

63 21.2 0.0 39.8

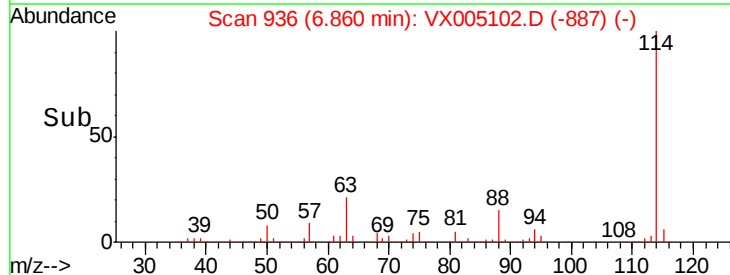
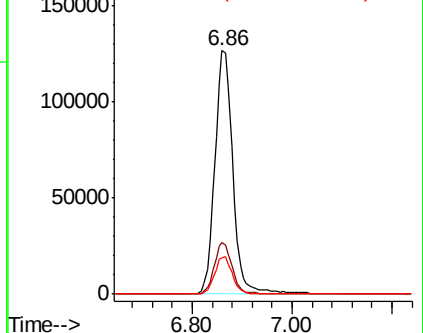
88 15.0 0.0 27.0

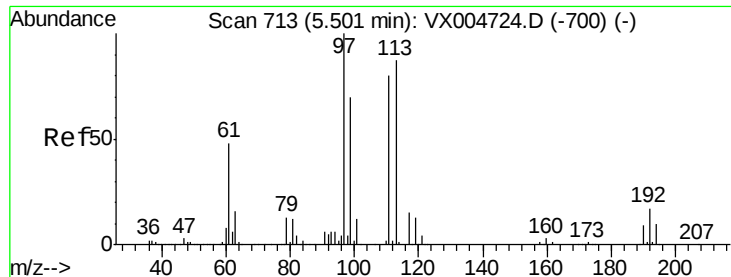


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

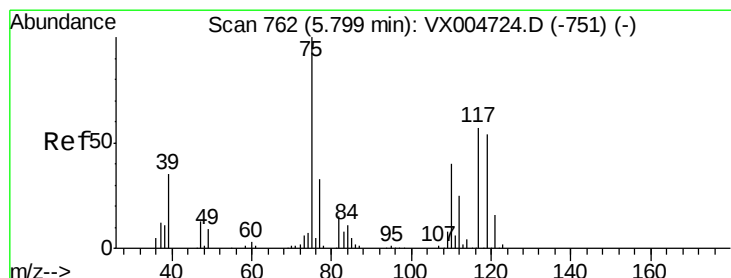
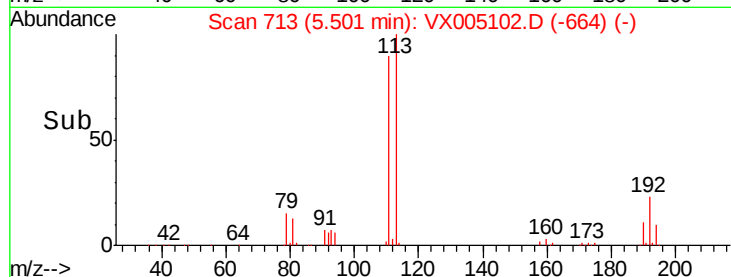
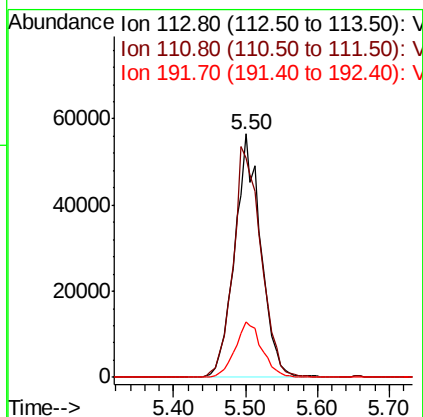
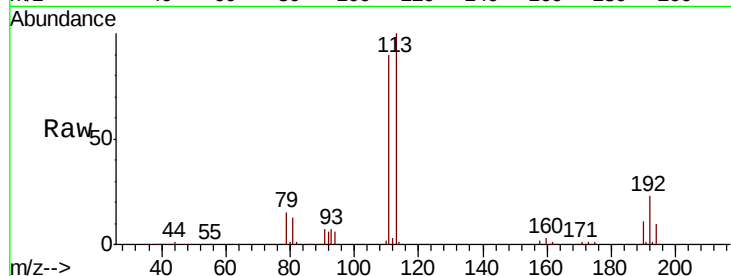




#35
 Dibromofluoromethane
 Concen: 53.044 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX005102.D
 Acq: 06 Oct 2018 08:13

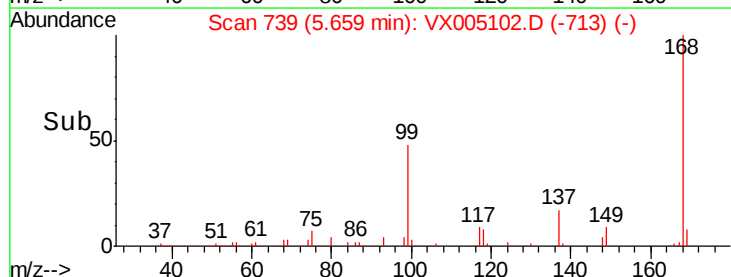
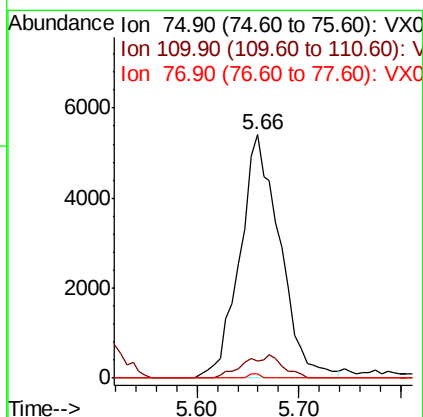
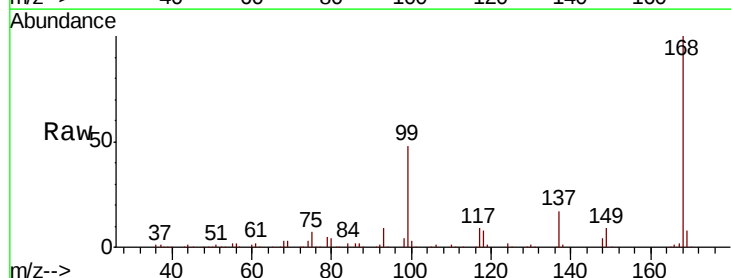
Instrument :
 MSVOA_X
 ClientSampleId :
 FA18-QBC5-9002

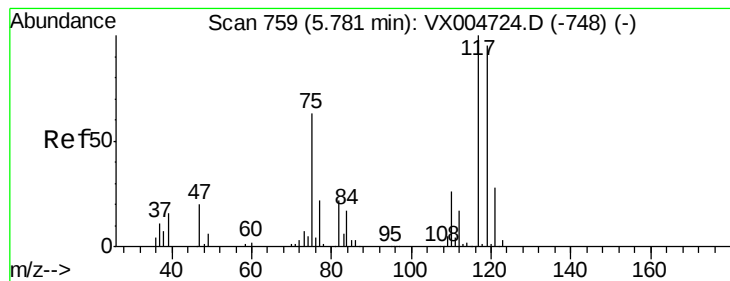
Tot Ion:113 Resp: 142803
 Ion Ratio Lower Upper
 113 100
 111 100.4 77.0 115.4
 192 23.3 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 4.021 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX005102.D
 Acq: 06 Oct 2018 08:13

Tgt Ion: 75 Resp: 14770
 Ion Ratio Lower Upper
 75 100
 110 9.3 20.0 59.9#
 77 0.4 27.1 40.7#





#38

Carbon Tetrachloride

Concen: 5.043 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005102.D

Acq: 06 Oct 2018 08:13

Instrument :

MSVOA_X

ClientSampleId :

FA18-QBC5-9002

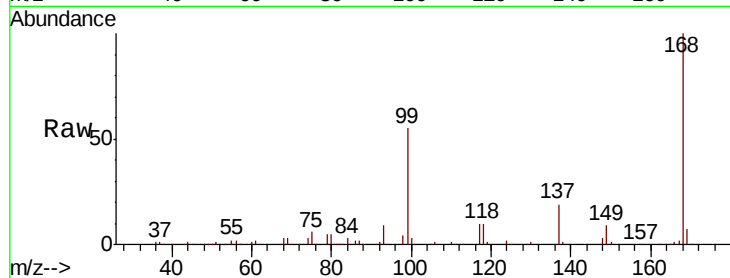
Tot Ion:117 Resp: 19473

Ion Ratio Lower Upper

117 100

119 7.0 75.2 112.8#

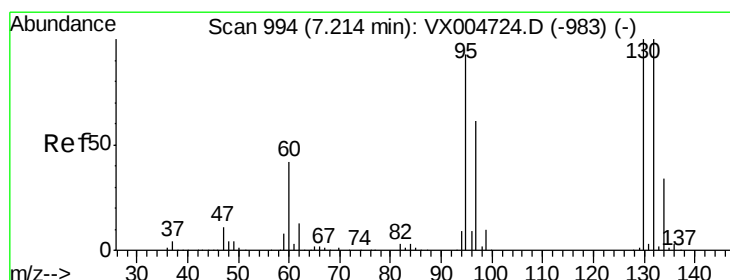
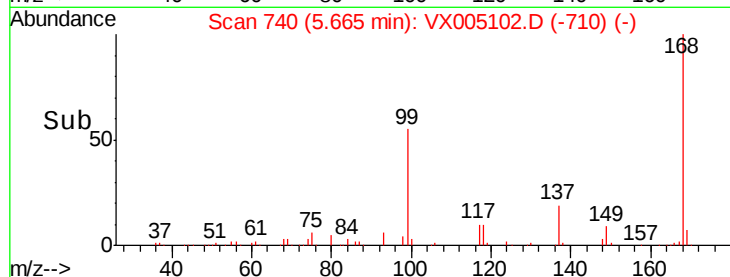
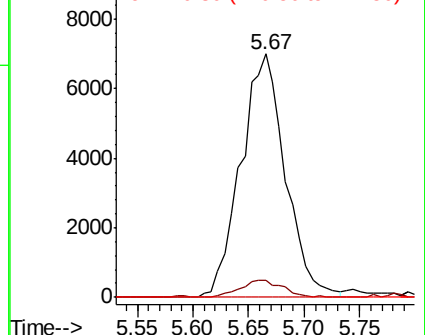
121 0.0 22.5 33.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 3.207 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX005102.D

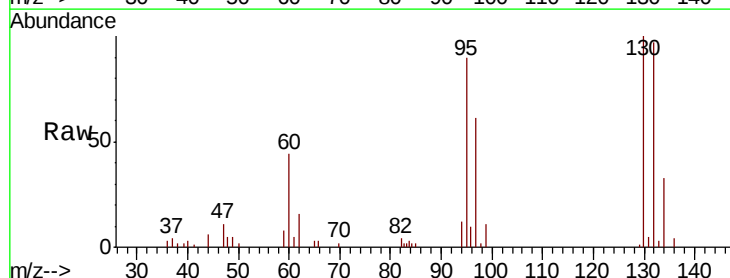
Acq: 06 Oct 2018 08:13

Tgt Ion:130 Resp: 9067

Ion Ratio Lower Upper

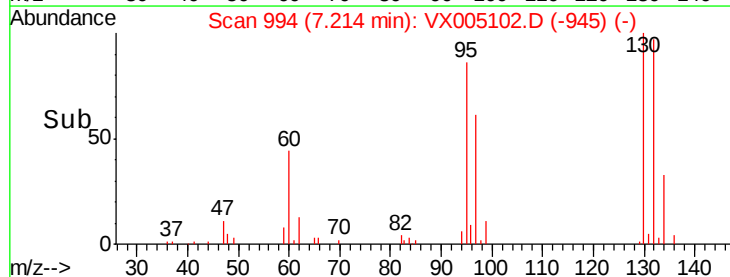
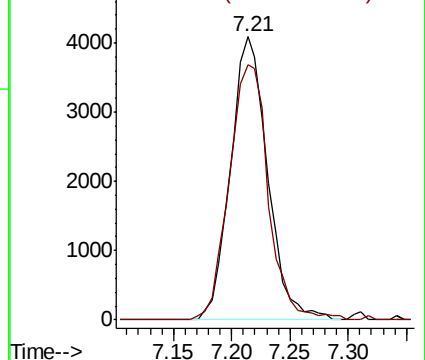
130 100

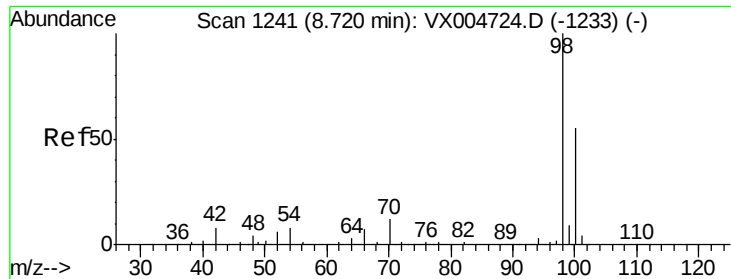
95 90.4 0.0 186.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 51.131 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.01 min

Lab File: VX005102.D

Acq: 06 Oct 2018 08:13

Instrument :

MSVOA_X

ClientSampleId :

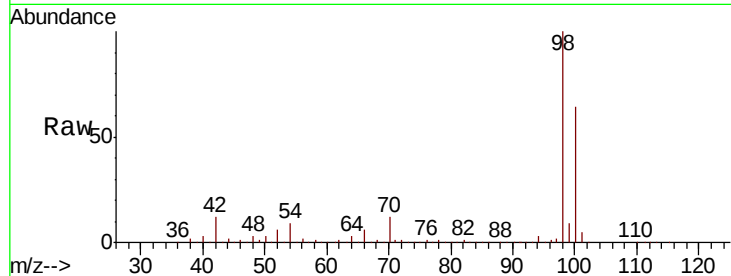
FA18-QBC5-9002

Tot Ion: 98 Resp: 457622

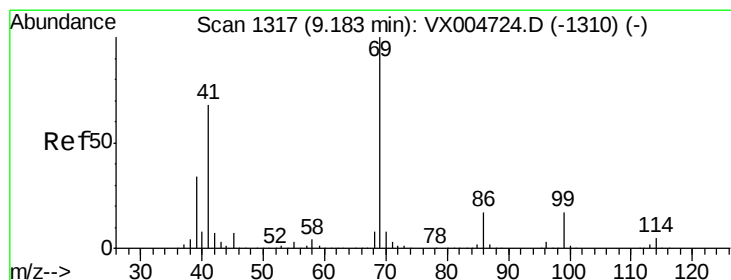
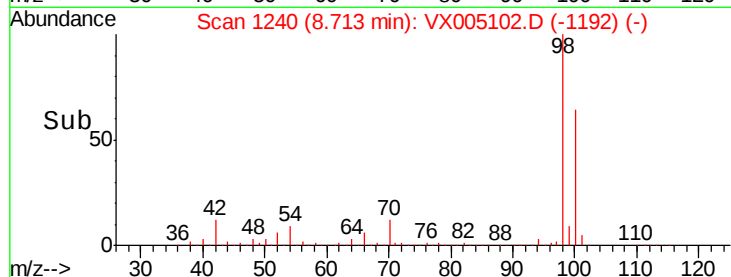
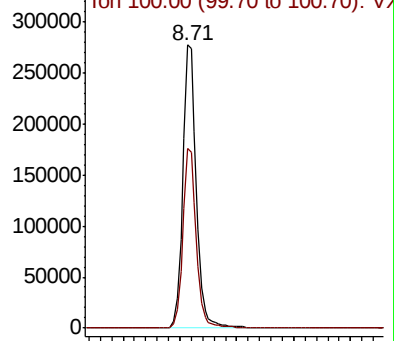
Ion Ratio Lower Upper

98 100

100 63.0 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0



#56

Ethyl methacrylate

Concen: 2.866 ug/l

RT: 9.25 min Scan# 1328

Delta R.T. 0.07 min

Lab File: VX005102.D

Acq: 06 Oct 2018 08:13

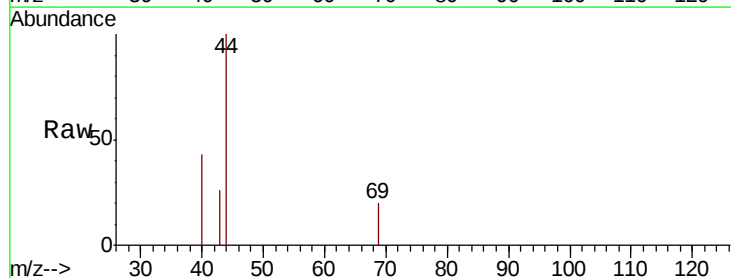
Tgt Ion: 69 Resp: 21

Ion Ratio Lower Upper

69 100

41 190.5 56.9 85.3#

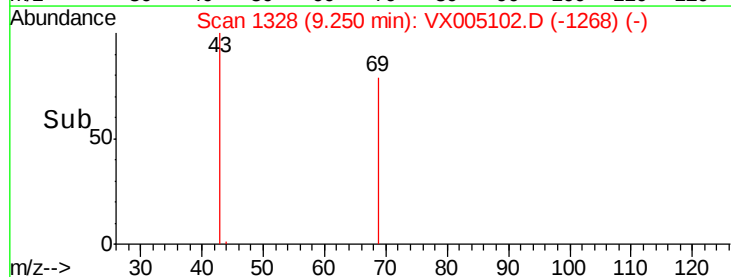
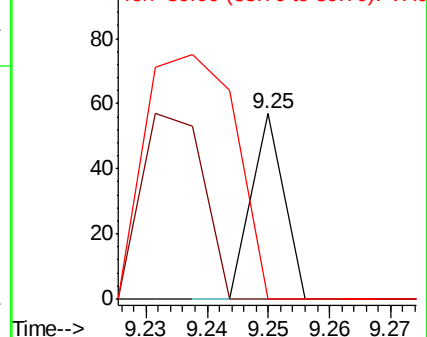
39 366.7 28.4 42.6#

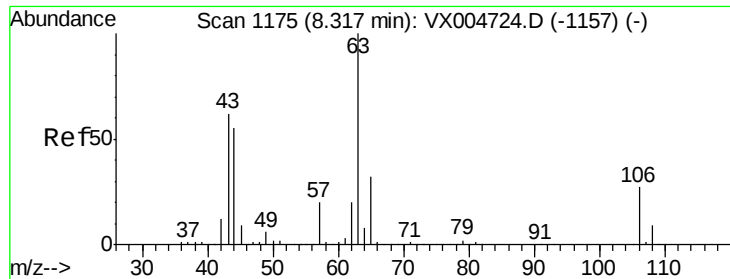


Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

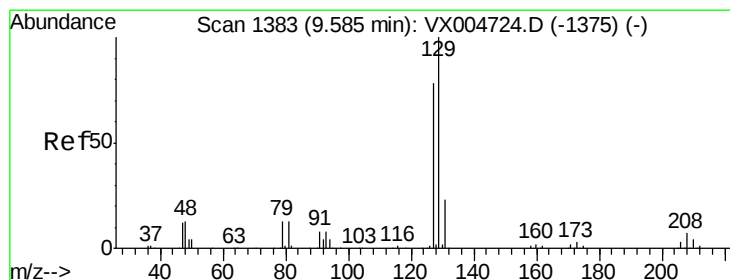
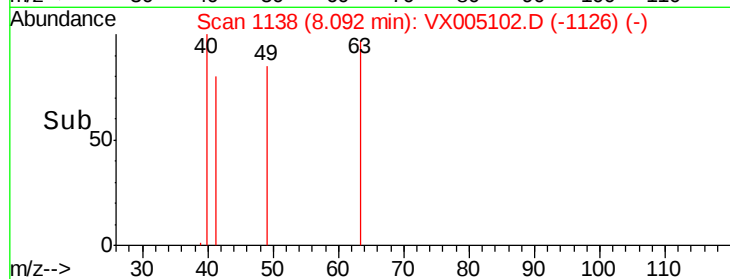
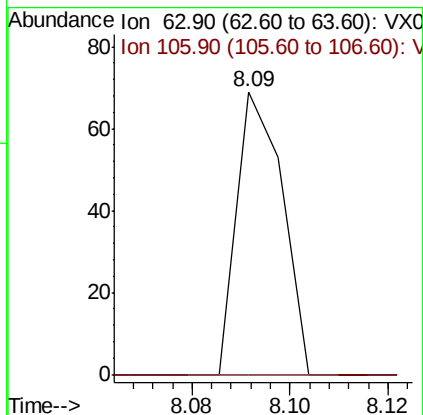
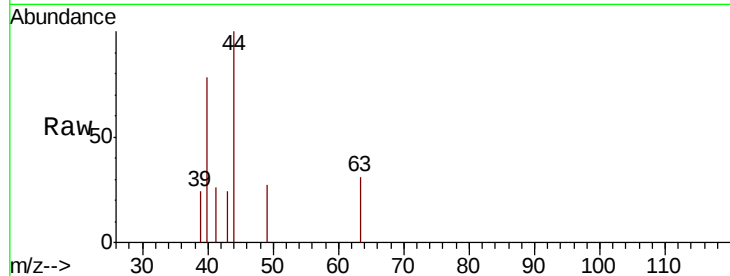




#58
2-Chloroethyl Vinyl ether
Concen: 14.260 ug/l
RT: 8.09 min Scan# 1138
Delta R.T. -0.23 min
Lab File: VX005102.D
Acq: 06 Oct 2018 08:13

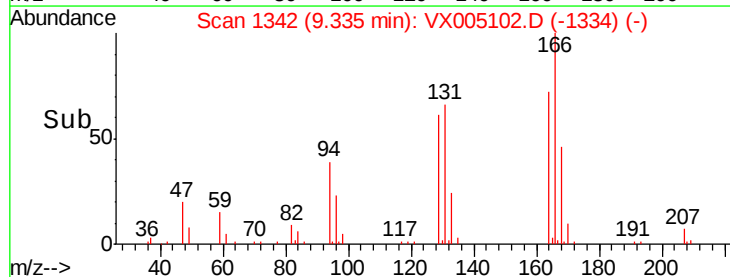
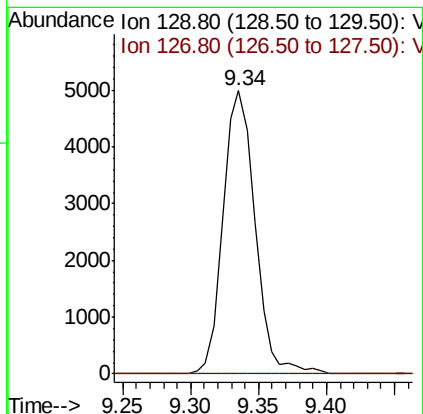
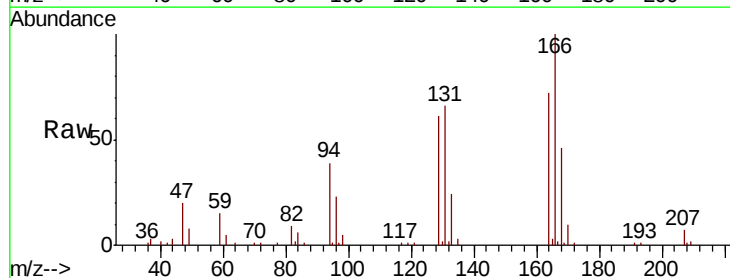
Instrument :
MSVOA_X
ClientSampleId :
FA18-QBC5-9002

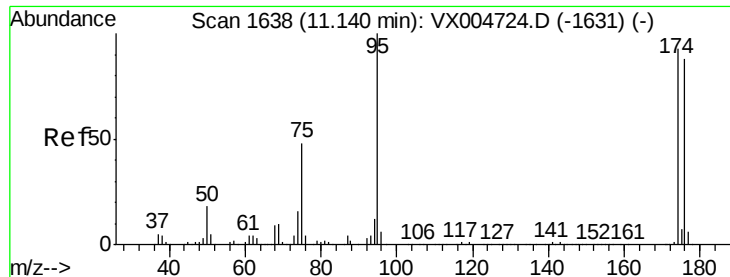
Tot Ion: 63 Resp: 45
Ion Ratio Lower Upper
63 100
106 0.0 21.0 31.6#



#60
Dibromochloromethane
Concen: 2.947 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.25 min
Lab File: VX005102.D
Acq: 06 Oct 2018 08:13

Tgt Ion: 129 Resp: 8158
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.2#

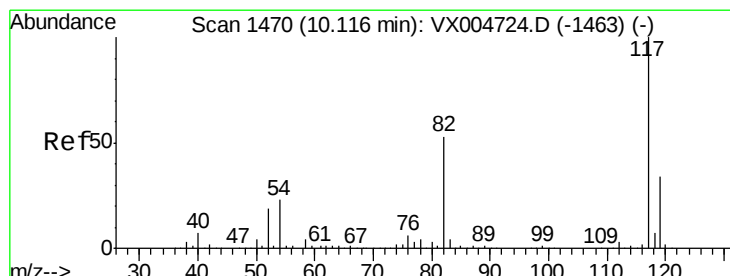
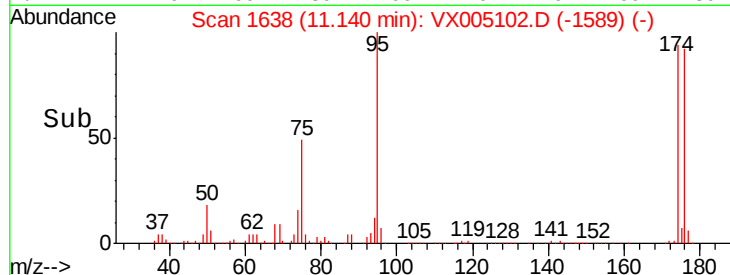
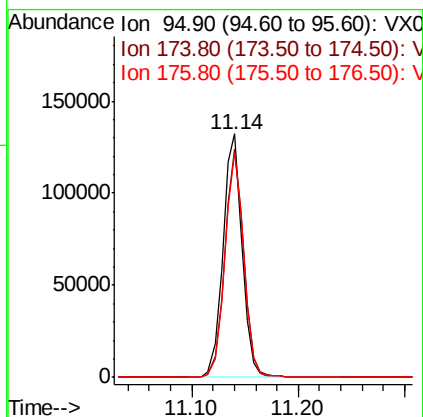
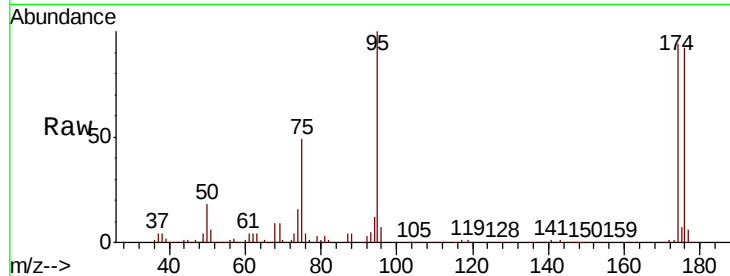




#62
4-Bromofluorobenzene
Concen: 51.432 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005102.D
Acq: 06 Oct 2018 08:13

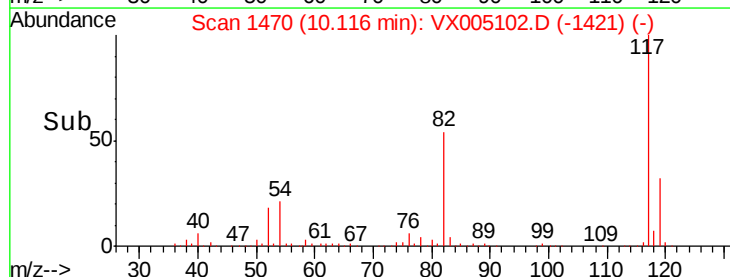
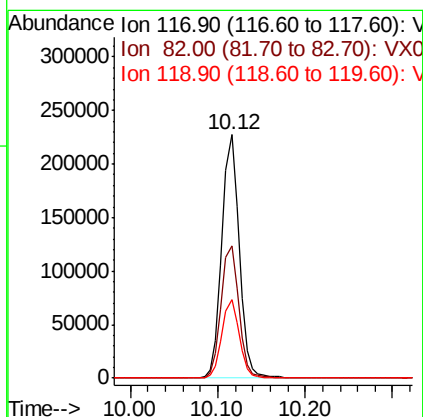
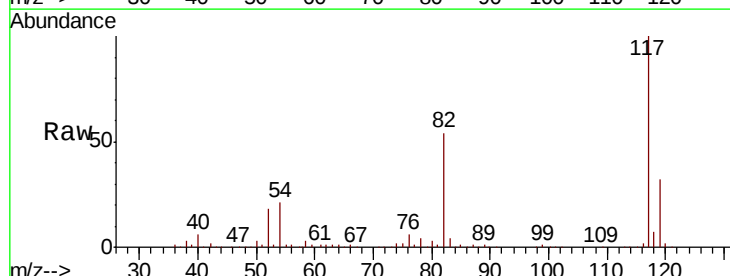
Instrument :
MSVOA_X
ClientSampleId :
FA18-QBC5-9002

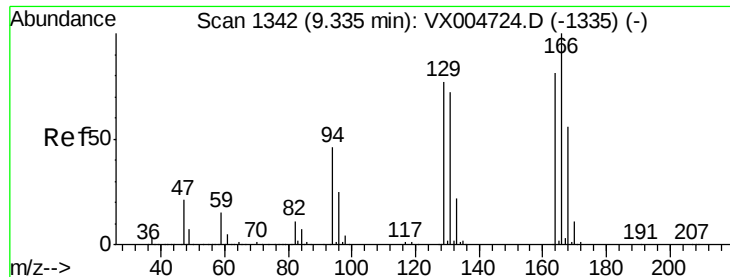
Tot Ion: 95 Resp: 165832
Ion Ratio Lower Upper
95 100
174 93.2 0.0 185.0
176 90.9 0.0 180.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005102.D
Acq: 06 Oct 2018 08:13

Tgt Ion: 117 Resp: 313627
Ion Ratio Lower Upper
117 100
82 54.1 42.2 63.4
119 32.4 27.4 41.0

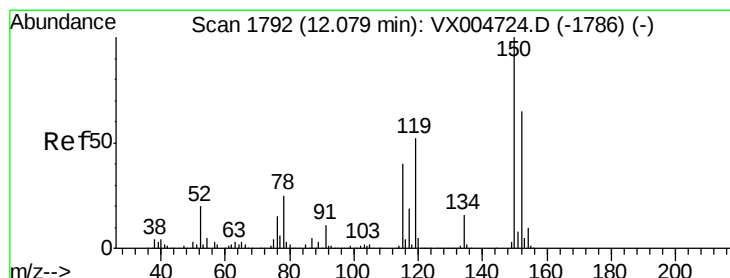
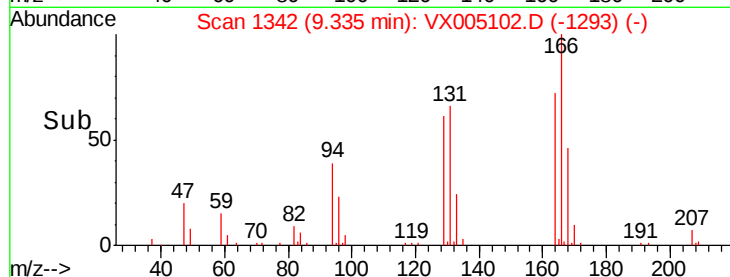
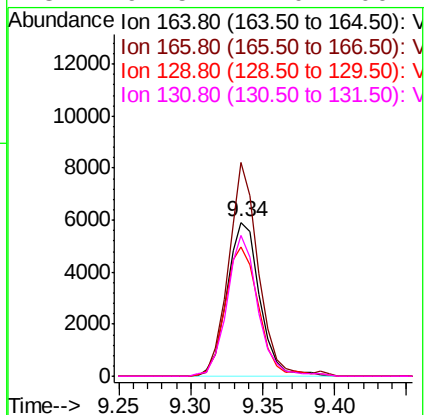
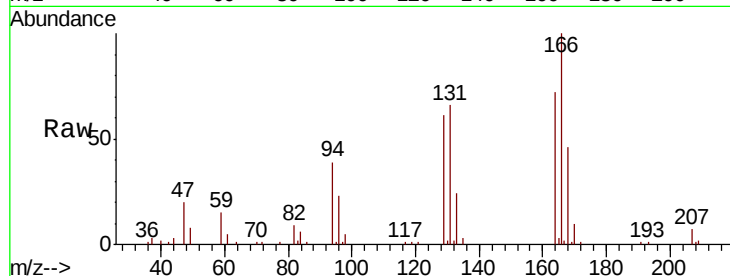




#64
Tetrachloroethene
Concen: 3.061 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX005102.D
Acq: 06 Oct 2018 08:13

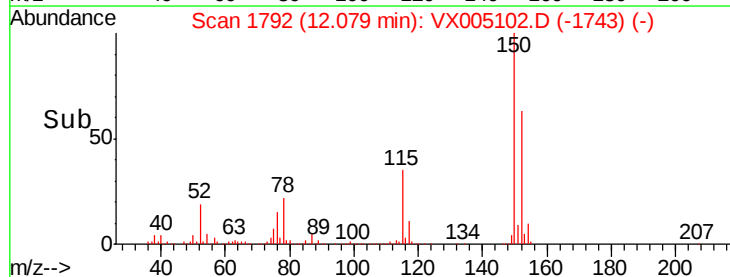
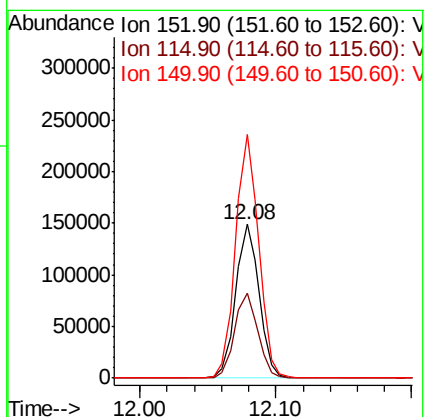
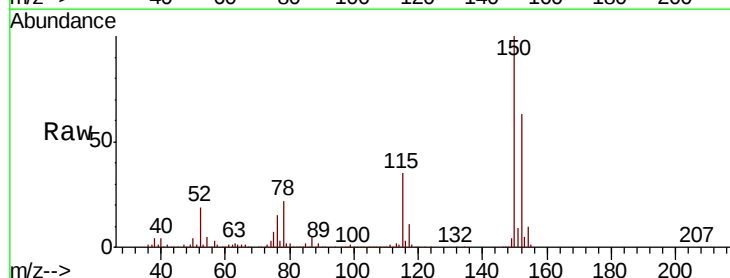
Instrument :
MSVOA_X
ClientSampleId :
FA18-QBC5-9002

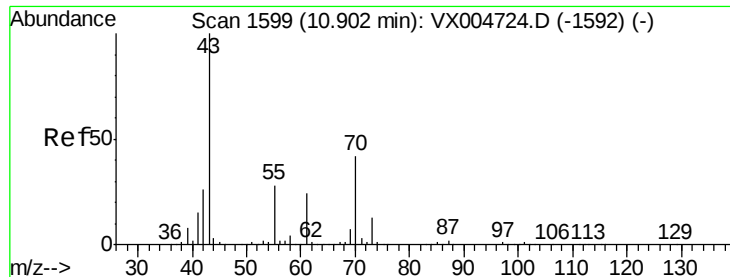
Tot Ion	Ratio	Lower	Upper
164	100		
166	138.8	98.4	147.6
129	84.4	76.1	114.1
131	91.5	71.0	106.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005102.D
Acq: 06 Oct 2018 08:13

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.1	40.2	120.6
150	157.1	0.0	351.0





#74

N-amvl acetate

Concen: 1.751 ug/l

RT: 10.92 min Scan# 1602

Delta R.T. 0.02 min

Lab File: VX005102.D

Acq: 06 Oct 2018 08:13

Instrument :

MSVOA_X

ClientSampleId :

FA18-QBC5-9002

Tot Ion: 43 Resp: 21

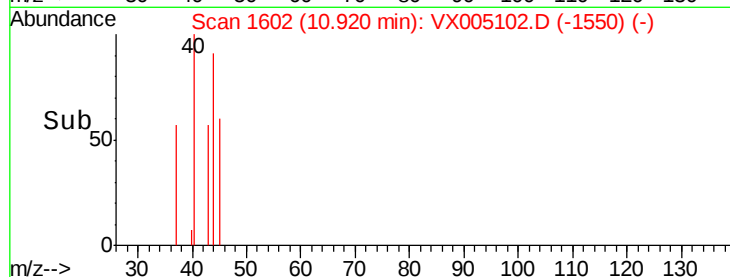
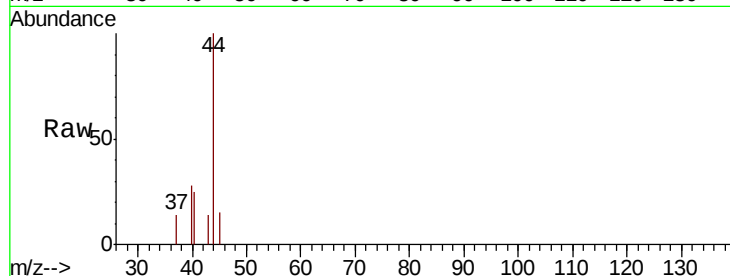
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 0.0 21.6 32.4#

61 0.0 19.1 28.7#

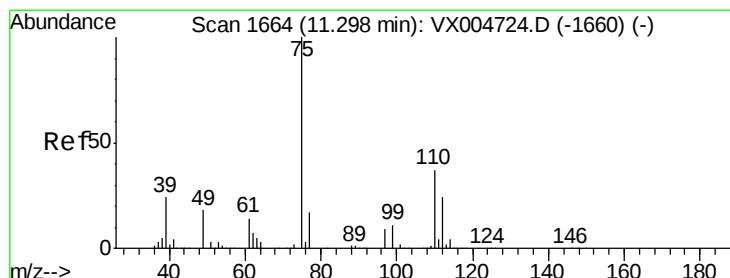
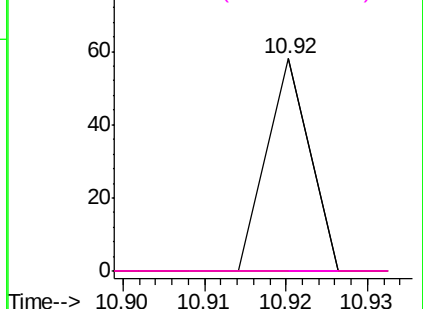


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 20.837 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005102.D

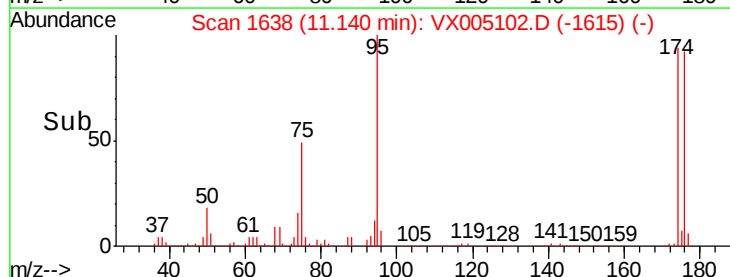
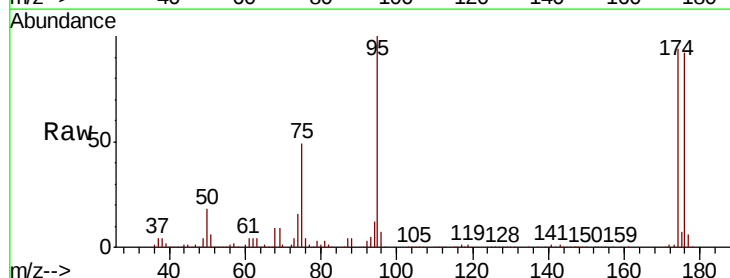
Acq: 06 Oct 2018 08:13

Tgt Ion: 75 Resp: 82962

Ion Ratio Lower Upper

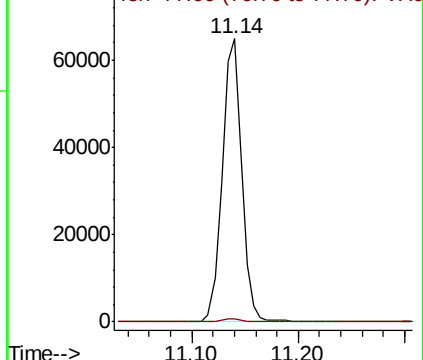
75 100

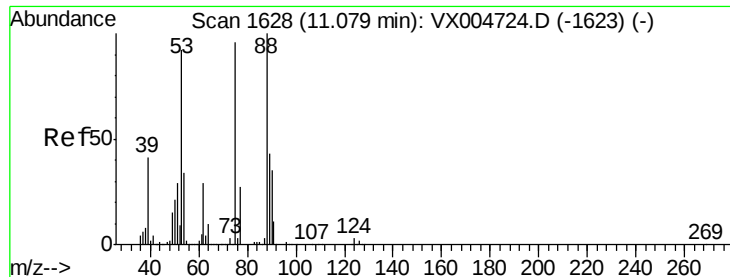
77 1.3 21.4 64.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

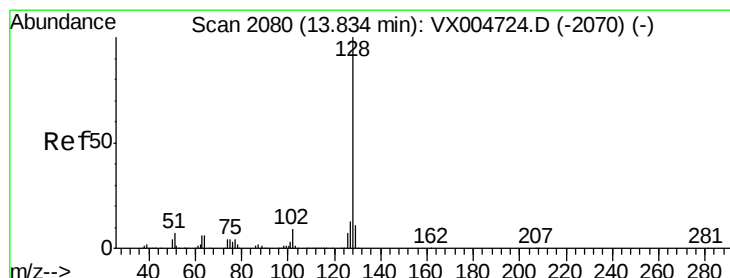
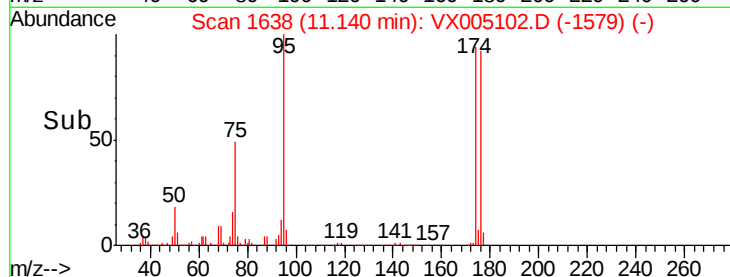
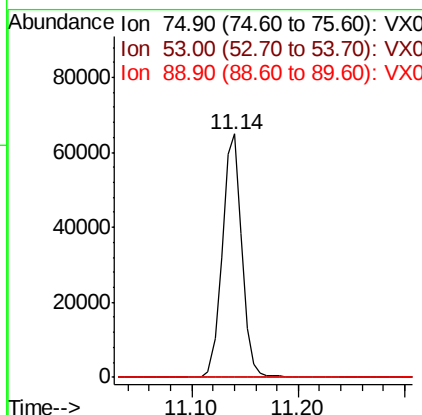
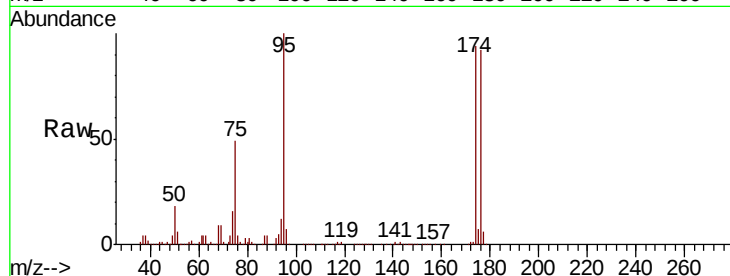




#81
trans-1,4-Dichloro-2-butene
Concen: 56.559 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.06 min
Lab File: VX005102.D
Acq: 06 Oct 2018 08:13

Instrument :
MSVOA_X
ClientSampleId :
FA18-QBC5-9002

Tot Ion: 75 Resp: 82962
Ion Ratio Lower Upper
75 100
53 0.3 80.2 120.4#
89 0.0 37.1 55.7#



#95
Naphthalene
Concen: 0.745 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX005102.D
Acq: 06 Oct 2018 08:13

Tgt Ion: 128 Resp: 379
Ion Ratio Lower Upper
128 100
127 16.6 10.4 15.6#
129 0.0 8.7 13.1#

