

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX100918\
 Data File : VX005201.D
 Acq On : 10 Oct 2018 11:00
 Operator : JC/MD
 Sample : J5303-18
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW516-3034

Quant Time: Oct 10 13:56:43 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	5.67	168	168587	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	273450	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	269360	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	151582	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	136080	56.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.02%	
35) Dibromofluoromethane	5.51	113	111739	48.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.42%	
50) Toluene-d8	8.72	98	394189	51.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.32%	
62) 4-Bromofluorobenzene	11.14	95	140804	50.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.46%	

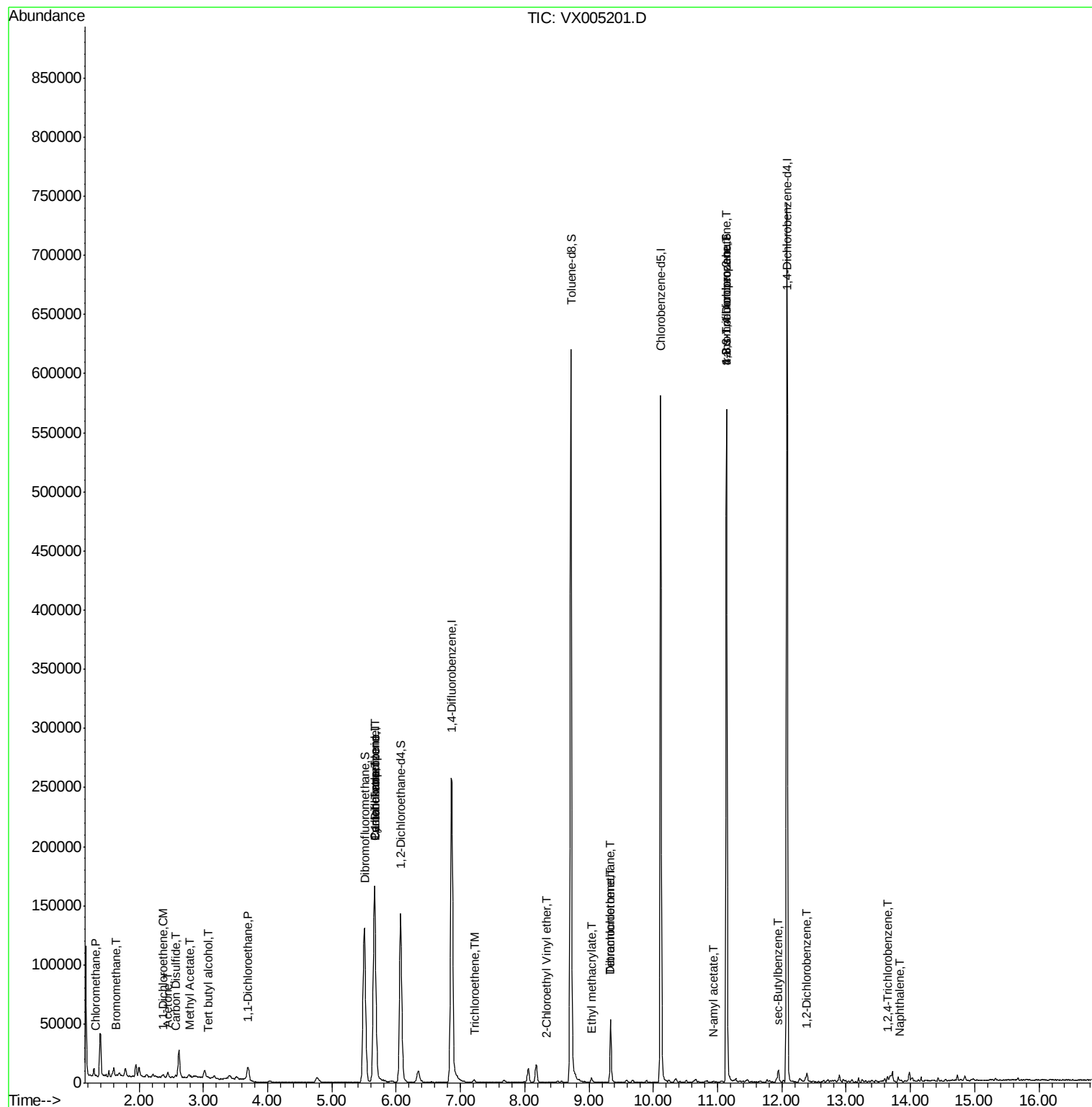
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1179	0.42	ug/l	93
5) Bromomethane	1.65	94	346	0.22	ug/l	85
11) Tert butyl alcohol	3.07	59	1243	1.85	ug/l #	77
12) 1,1-Dichloroethene	2.37	96	793	0.43	ug/l #	69
16) Acetone	2.45	43	4491	3.19	ug/l	99
17) Carbon Disulfide	2.57	76	2419	0.44	ug/l	96
18) Methyl Acetate	2.78	43	881	0.25	ug/l #	84
20) Methylene Chloride	2.86	84	321	Below	Cal #	80
24) 1,1-Dichloroethane	3.70	63	12201	3.05	ug/l	98
31) Cyclohexane	5.66	56	3277	1.07	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	11321	3.58	ug/l #	46
38) Carbon Tetrachloride	5.66	117	15581	4.69	ug/l #	18
44) Trichloroethene	7.22	130	895	0.37	ug/l	82
56) Ethyl methacrylate	9.04	69	380	2.95	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.35	63	23	14.25	ug/l #	49
60) Dibromochloromethane	9.34	129	9956	4.18	ug/l #	10
64) Tetrachloroethene	9.34	164	10943	4.13	ug/l	96
74) N-amyl acetate	10.93	43	220	1.79	ug/l #	11
76) 1,2,3-Trichloropropane	11.14	75	70070	20.62	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.45	105	244	Below	Cal	85
81) trans-1,4-Dichloro-2-buten	11.14	75	70070	56.00	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	492	Below	Cal	97
85) sec-Butylbenzene	11.94	105	5068	0.53	ug/l	82
91) 1,2-Dichlorobenzene	12.40	146	2083	0.38	ug/l	97
93) 1,2,4-Trichlorobenzene	13.65	180	991	0.26	ug/l #	79
95) Naphthalene	13.83	128	583	0.77	ug/l #	65

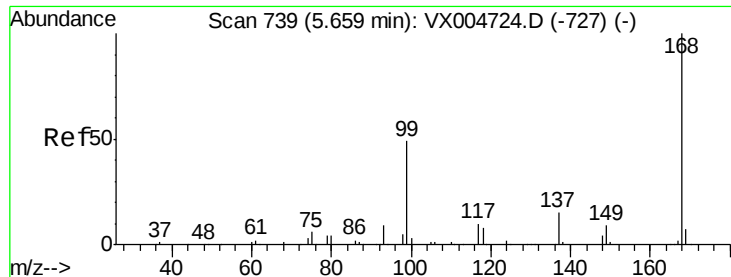
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 03 04:00:03 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005201.D

Acq: 10 Oct 2018 11:00

Instrument :

MSVOA_X

ClientSampleId :

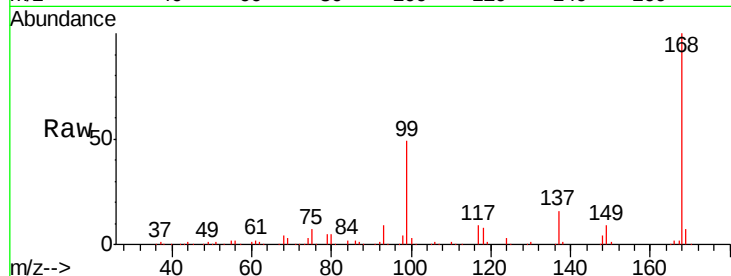
SA-TW516-3034

Tgt Ion:168 Resp: 168587

Ion Ratio Lower Upper

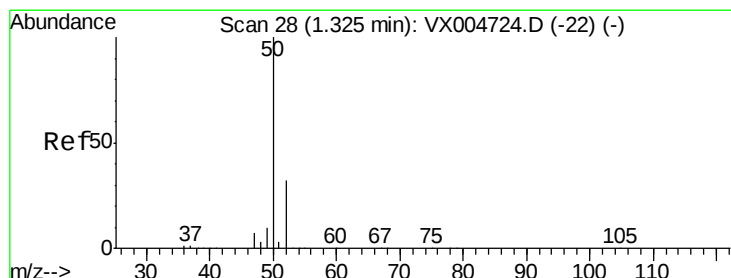
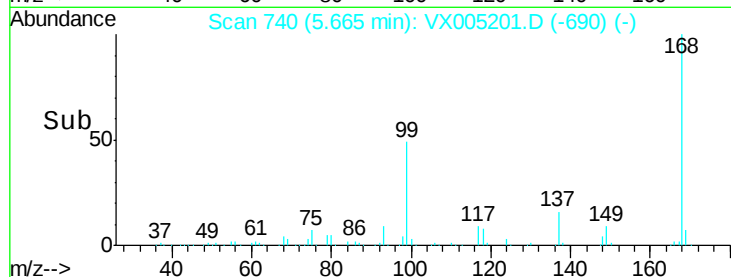
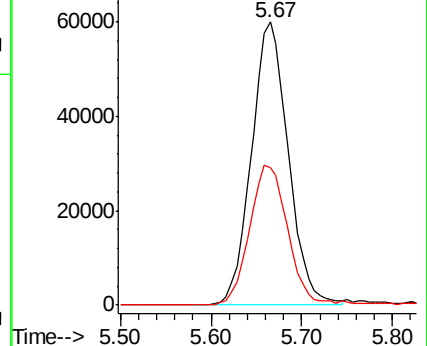
168 100

99 48.7 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.42 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX005201.D

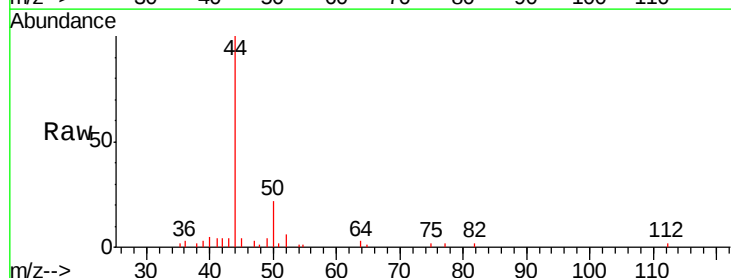
Acq: 10 Oct 2018 11:00

Tgt Ion: 50 Resp: 1179

Ion Ratio Lower Upper

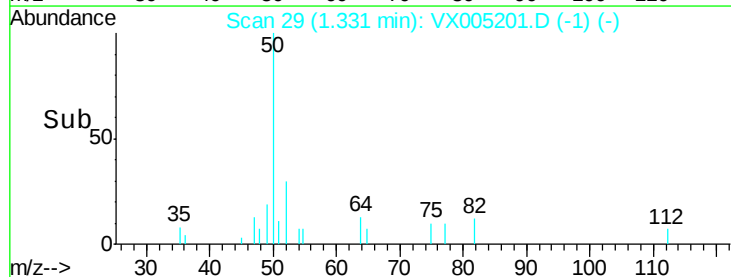
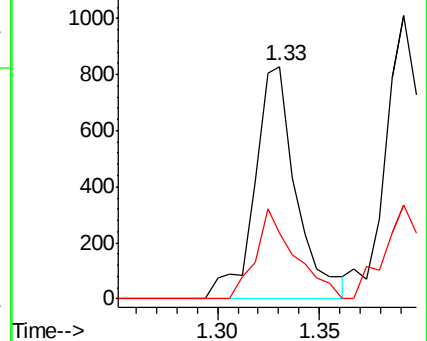
50 100

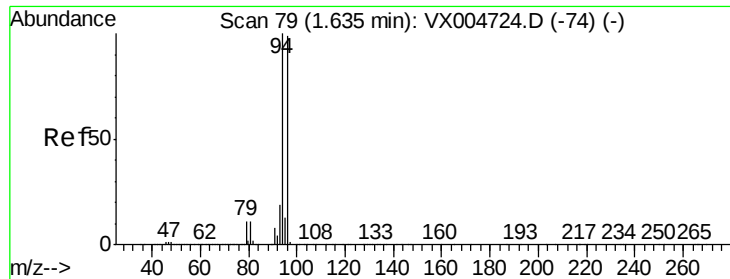
52 28.2 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.22 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005201.D

Acq: 10 Oct 2018 11:00

Instrument :

MSVOA_X

ClientSampleId :

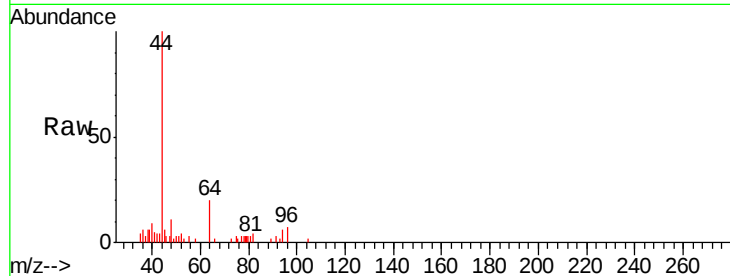
SA-TW516-3034

Tgt Ion: 94 Resp: 346

Ion Ratio Lower Upper

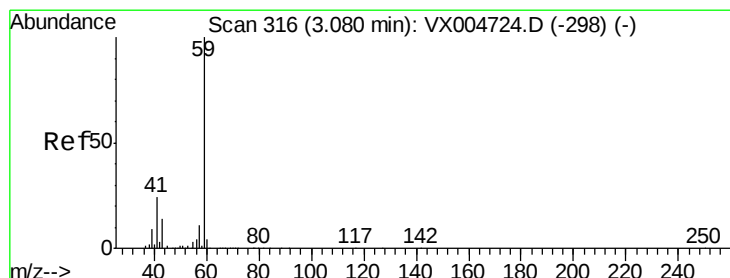
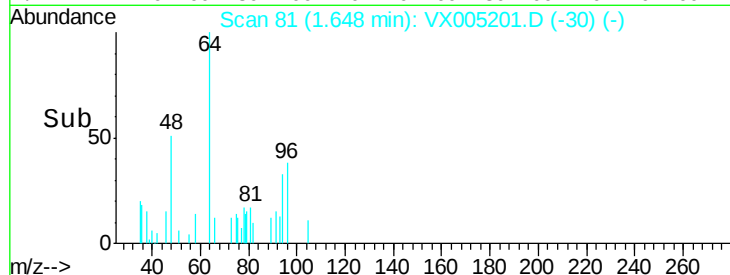
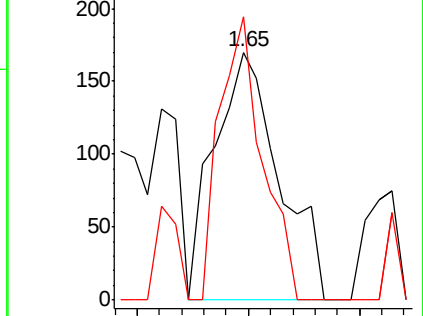
94 100

96 114.1 79.5 119.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: 1.85 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX005201.D

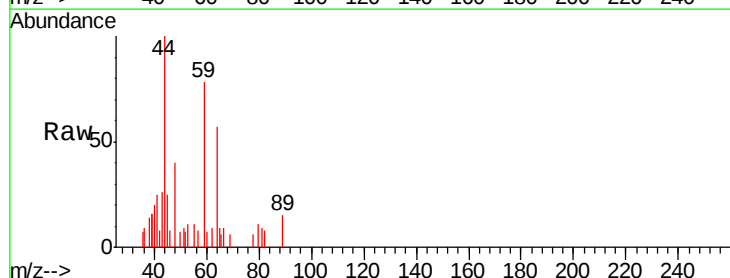
Acq: 10 Oct 2018 11:00

Tgt Ion: 59 Resp: 1243

Ion Ratio Lower Upper

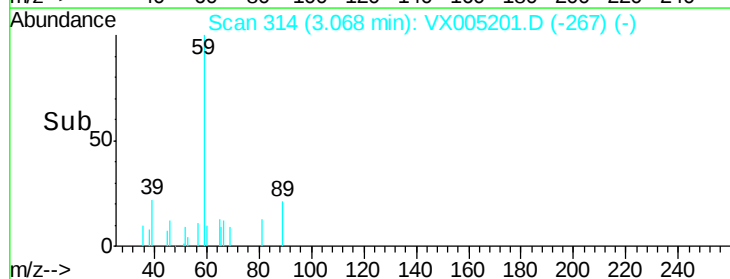
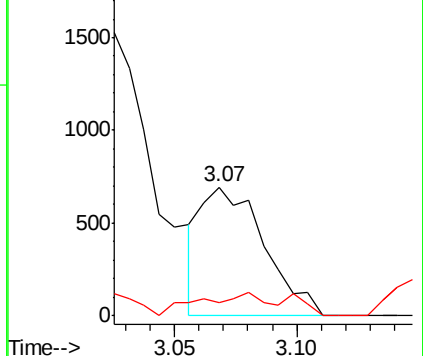
59 100

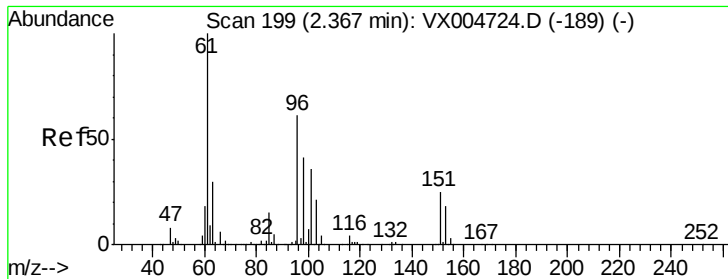
57 19.4 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

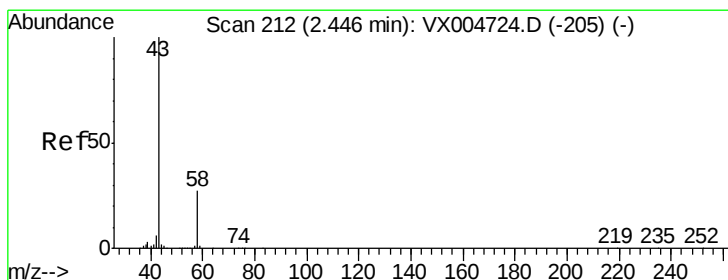
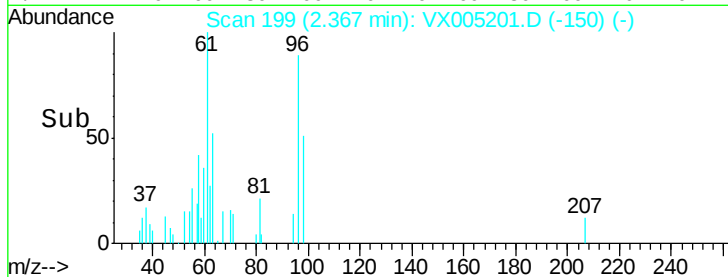
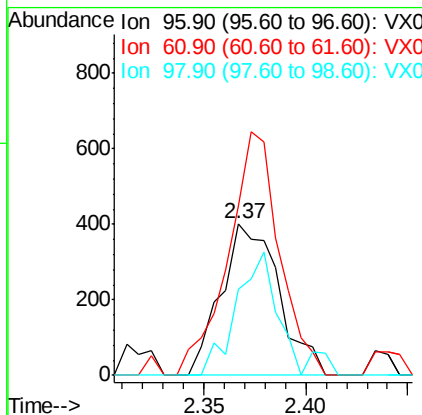
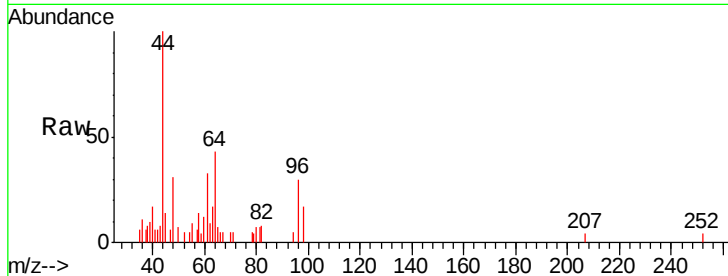




#12
 1,1-Dichloroethene
 Concen: 0.43 ug/l
 RT: 2.37 min Scan# 199
 Delta R.T. -0.00 min
 Lab File: VX005201.D
 Acq: 10 Oct 2018 11:00

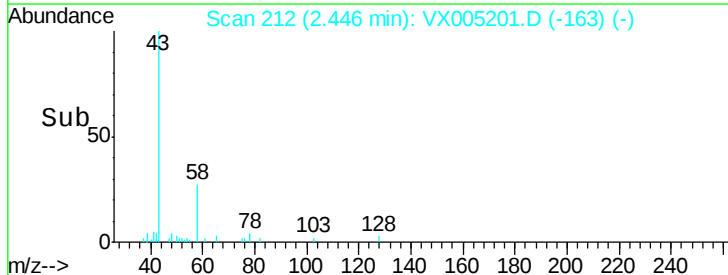
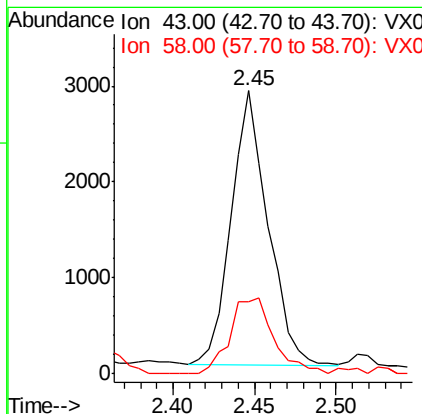
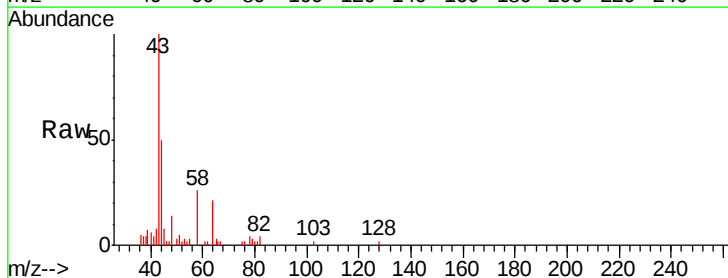
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW516-3034

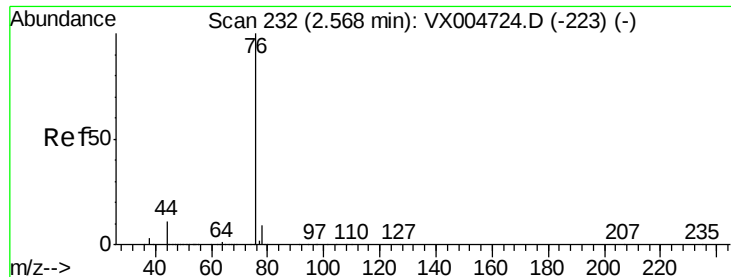
Tgt Ion: 96 Resp: 793
 Ion Ratio Lower Upper
 96 100
 61 111.9 130.2 195.4#
 98 56.7 53.4 80.0



#16
 Acetone
 Concen: 3.19 ug/l
 RT: 2.45 min Scan# 212
 Delta R.T. -0.00 min
 Lab File: VX005201.D
 Acq: 10 Oct 2018 11:00

Tgt Ion: 43 Resp: 4491
 Ion Ratio Lower Upper
 43 100
 58 26.4 21.8 32.6





#17

Carbon Disulfide

Concen: 0.44 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX005201.D

Acq: 10 Oct 2018 11:00

Instrument :

MSVOA_X

ClientSampleId :

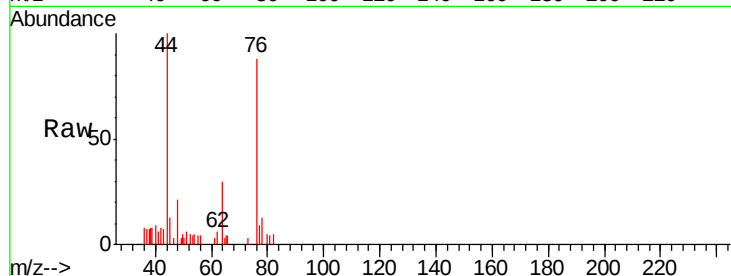
SA-TW516-3034

Tgt Ion: 76 Resp: 2419

Ion Ratio Lower Upper

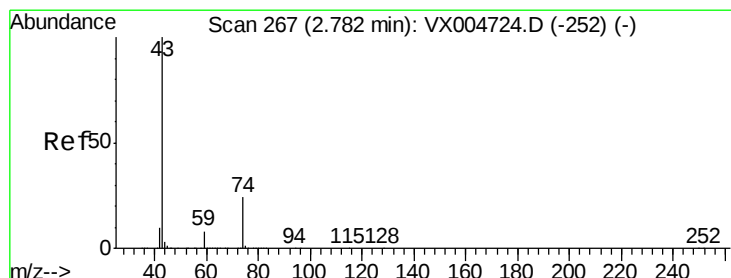
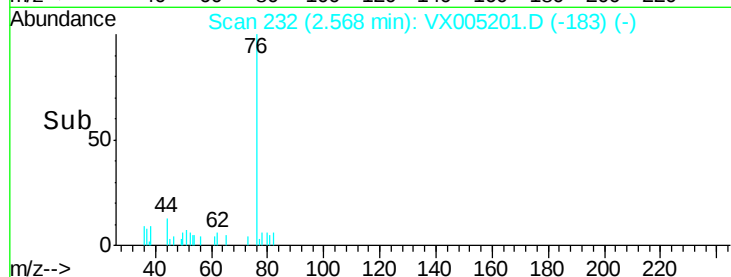
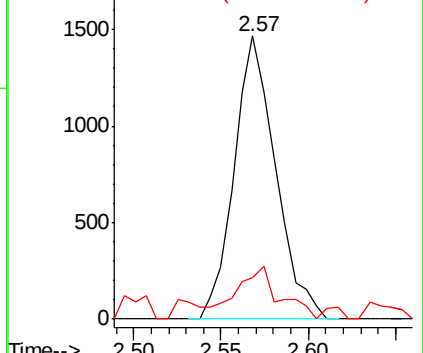
76 100

78 10.4 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.25 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX005201.D

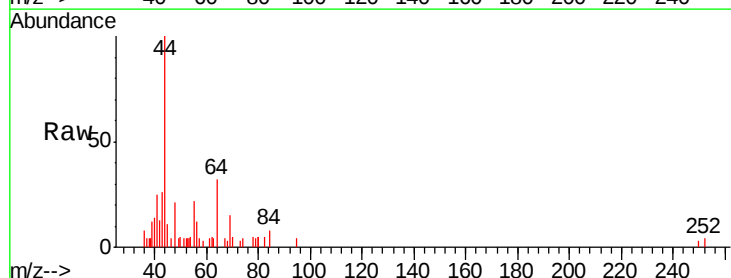
Acq: 10 Oct 2018 11:00

Tgt Ion: 43 Resp: 881

Ion Ratio Lower Upper

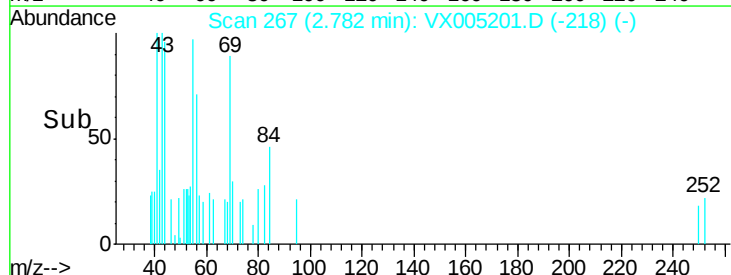
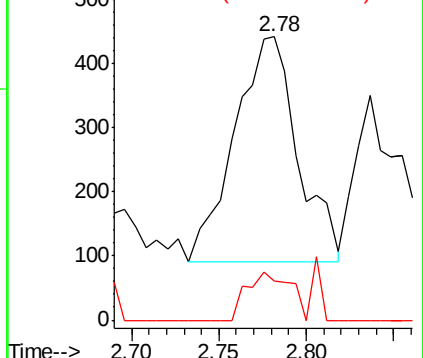
43 100

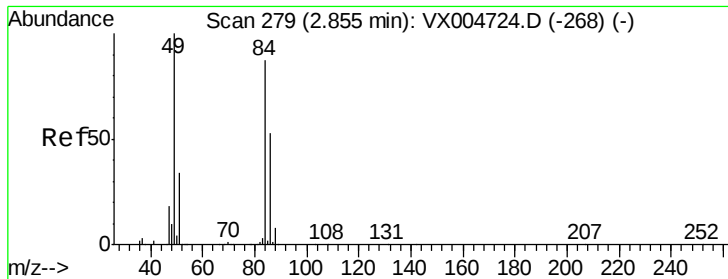
74 14.6 17.8 26.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX005201.D

Acq: 10 Oct 2018 11:00

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SA-TW516-3034

Tgt Ion: 84 Resp: 321

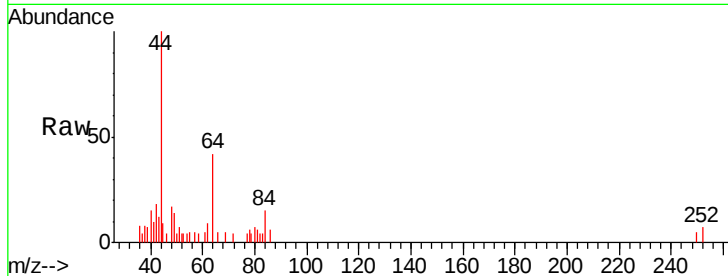
Ion Ratio Lower Upper

84 100

49 97.7 92.3 138.5

51 25.8 31.8 47.6#

86 42.5 48.5 72.7#

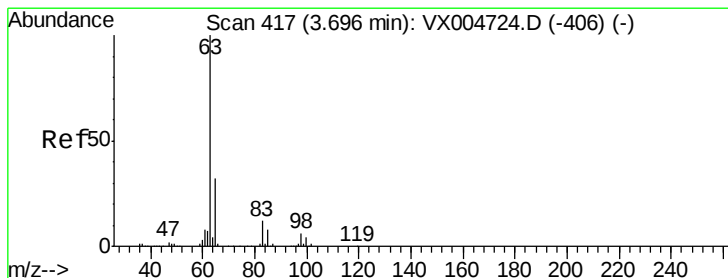
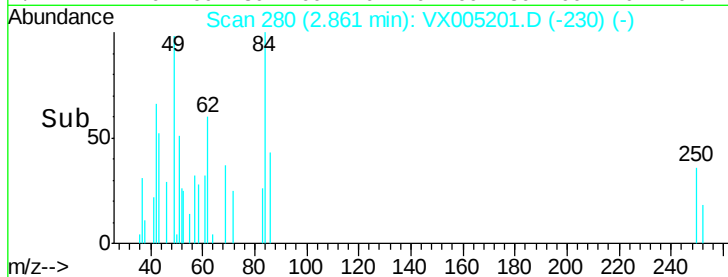
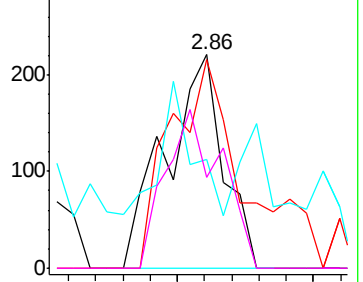


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#24

1,1-Dichloroethane

Concen: 3.05 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX005201.D

Acq: 10 Oct 2018 11:00

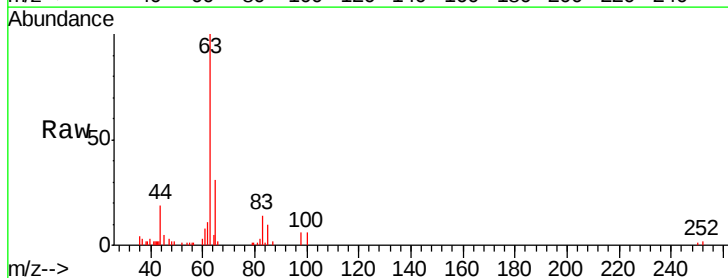
Tgt Ion: 63 Resp: 12201

Ion Ratio Lower Upper

63 100

98 6.0 3.0 9.2

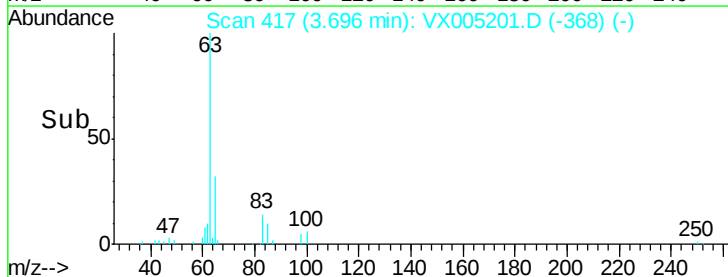
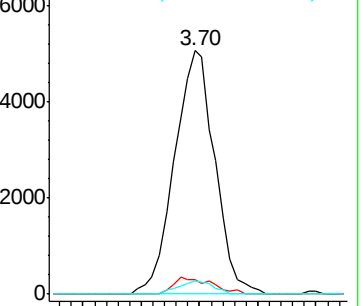
100 5.7 2.0 5.8

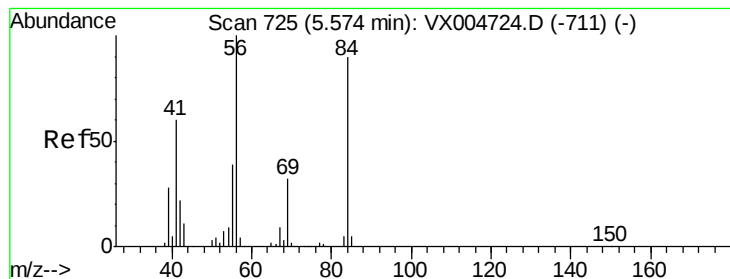


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#31

Cyclohexane

Concen: 1.07 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005201.D

Acq: 10 Oct 2018 11:00

Instrument :

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ClientSampleId :

SA-TW516-3034

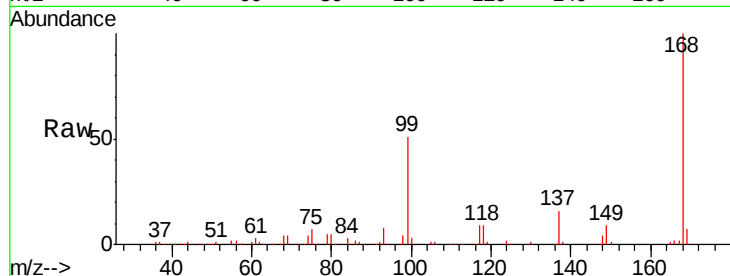
Tgt Ion: 56 Resp: 3277

Ion Ratio Lower Upper

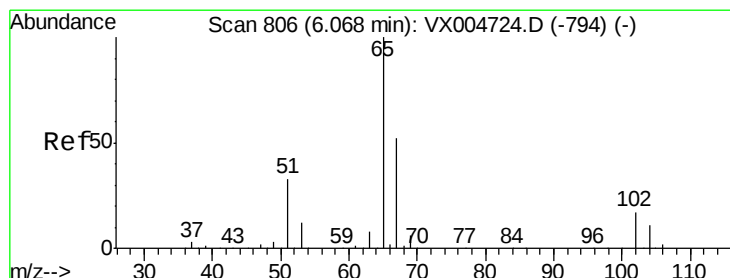
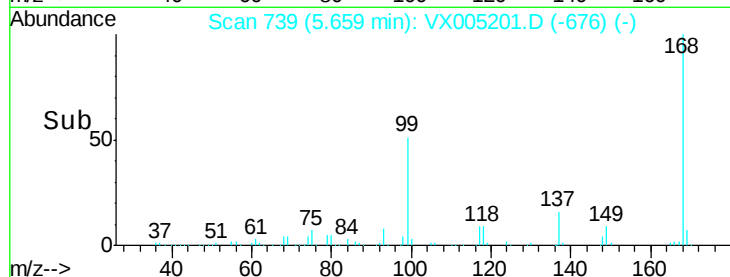
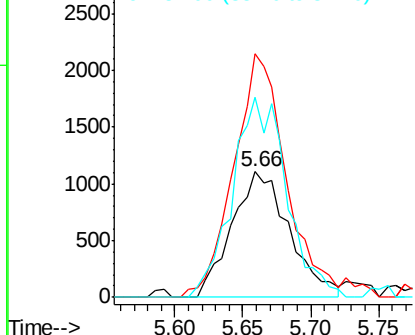
56 100

69 187.2 25.9 38.9#

84 160.0 71.9 107.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 56.51 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005201.D

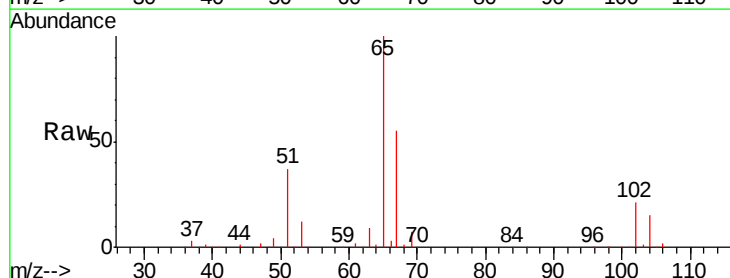
Acq: 10 Oct 2018 11:00

Tgt Ion: 65 Resp: 136080

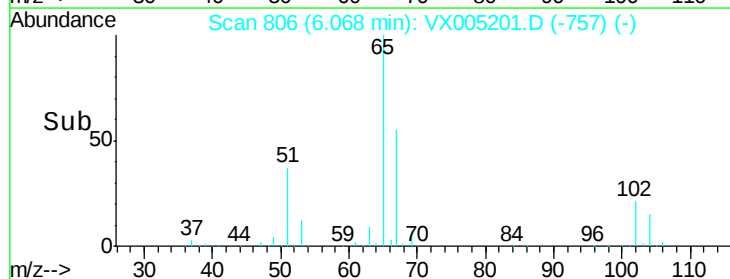
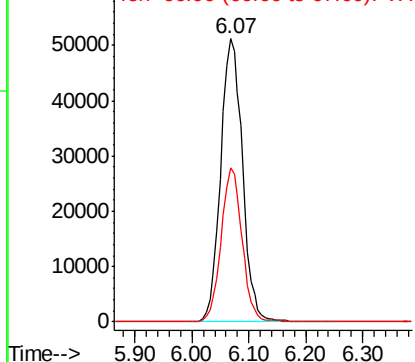
Ion Ratio Lower Upper

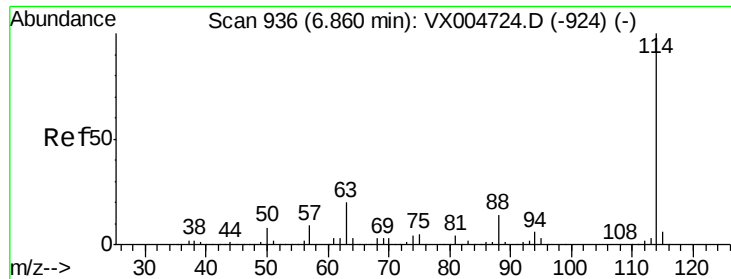
65 100

67 52.3 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

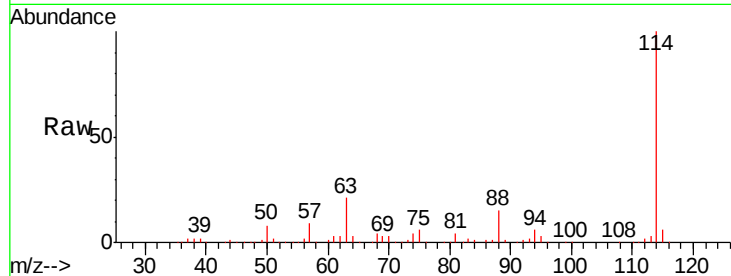




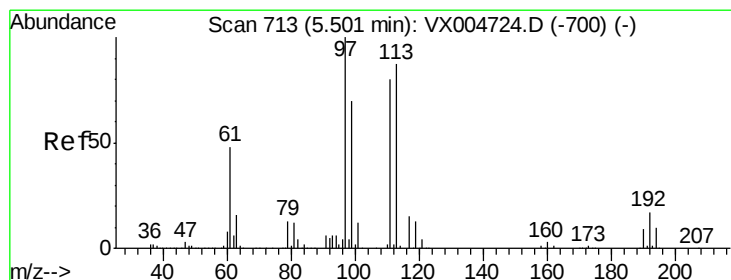
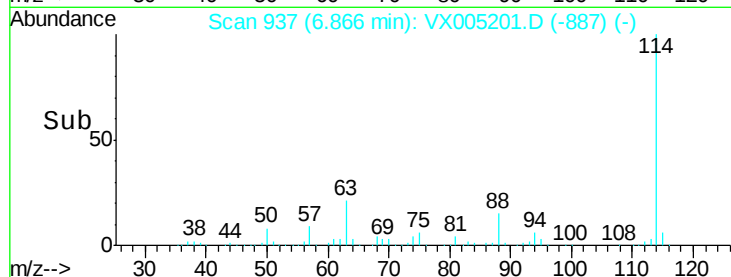
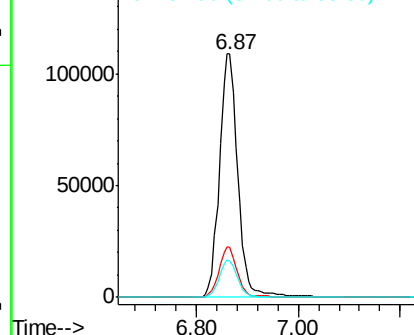
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.87 min Scan# 937
Delta R.T. 0.01 min
Lab File: VX005201.D
Acq: 10 Oct 2018 11:00

Instrument :
MSVOA_X
ClientSampleId :
SA-TW516-3034

Tgt Ion:114 Resp: 273450
Ion Ratio Lower Upper
114 100
63 20.9 0.0 39.8
88 14.9 0.0 27.0

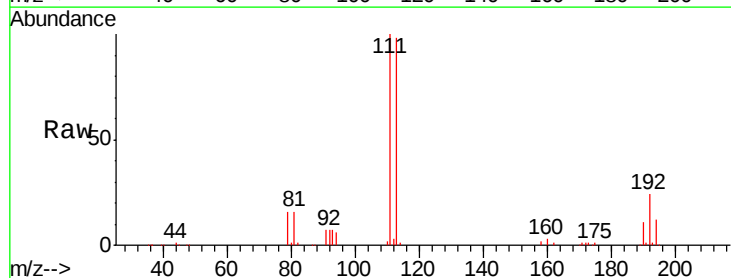


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

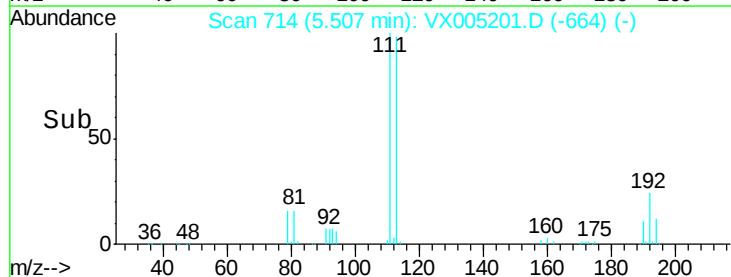
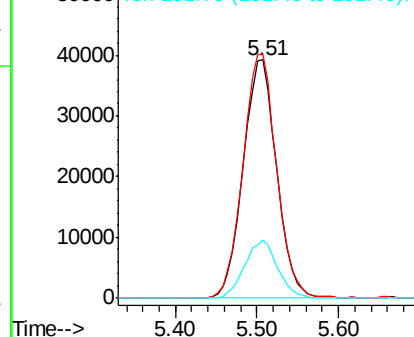


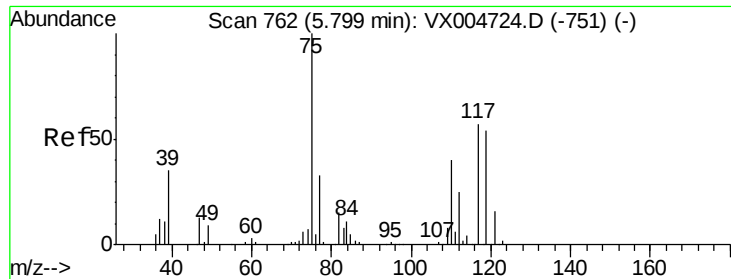
#35
Dibromofluoromethane
Concen: 48.21 ug/l
RT: 5.51 min Scan# 714
Delta R.T. 0.01 min
Lab File: VX005201.D
Acq: 10 Oct 2018 11:00

Tgt Ion:113 Resp: 111739
Ion Ratio Lower Upper
113 100
111 102.6 77.0 115.4
192 24.0 17.0 25.6



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

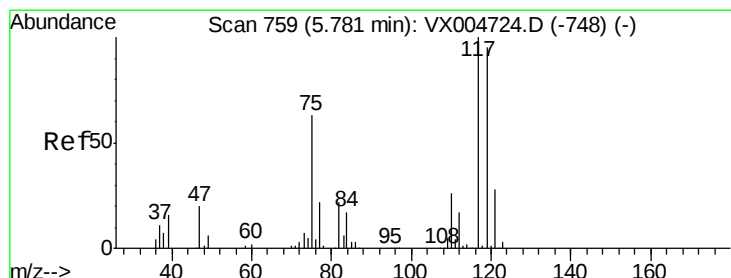
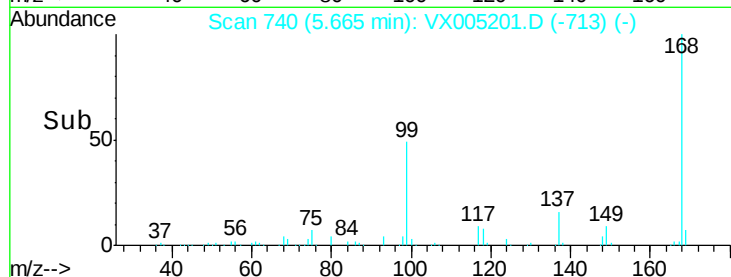
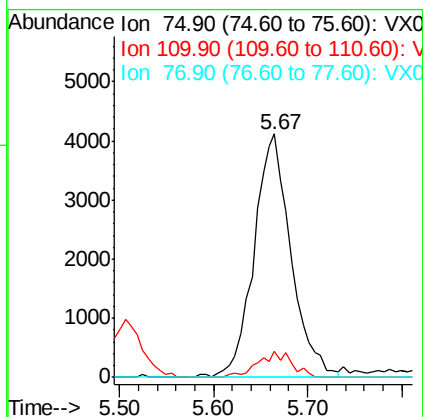
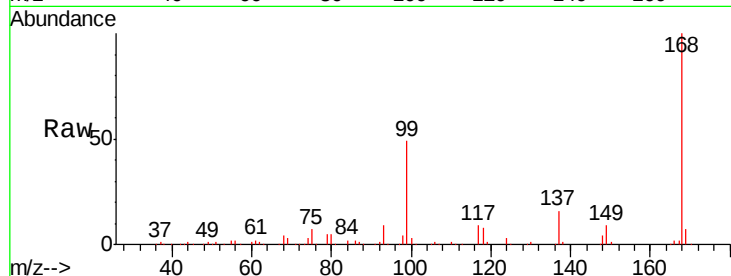




#36
 1,1-Dichloropropene
 Concen: 3.58 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005201.D
 Acq: 10 Oct 2018 11:00

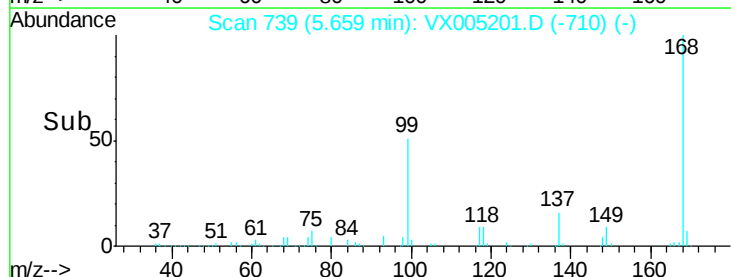
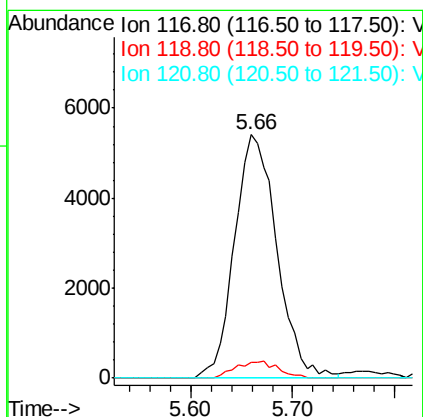
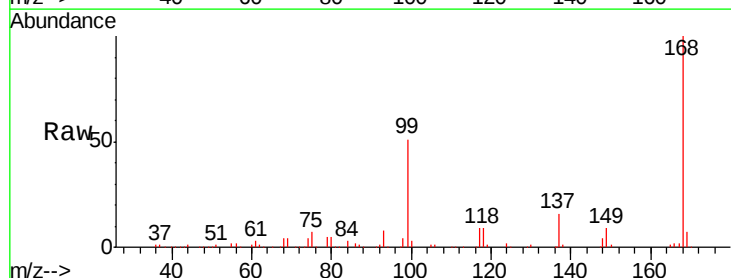
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW516-3034

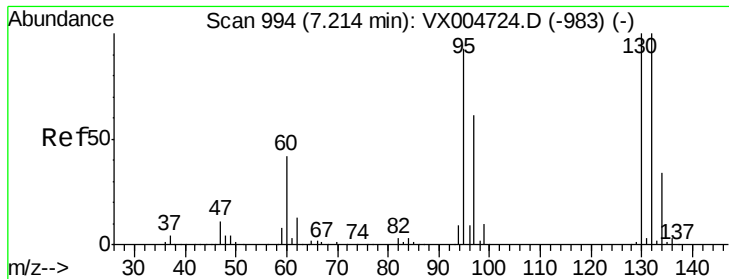
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	20.0	59.9#
77	0.0	27.1	40.7#



#38
 Carbon Tetrachloride
 Concen: 4.69 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX005201.D
 Acq: 10 Oct 2018 11:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.3	75.2	112.8#
121	0.0	22.5	33.7#

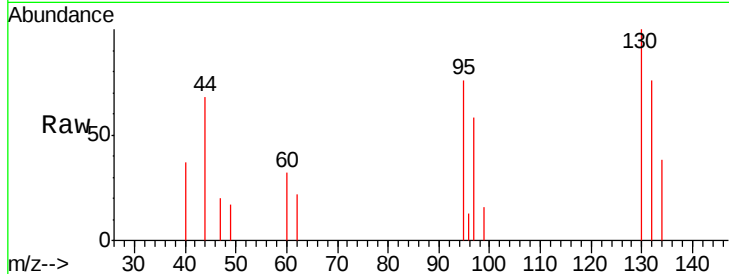




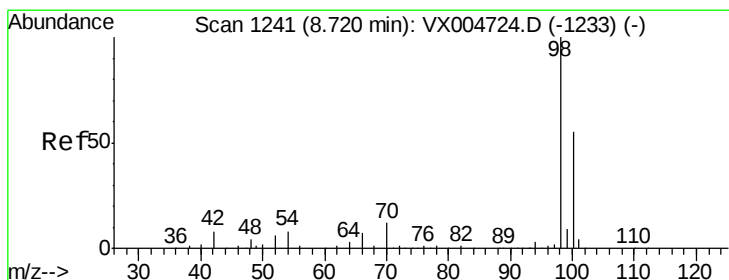
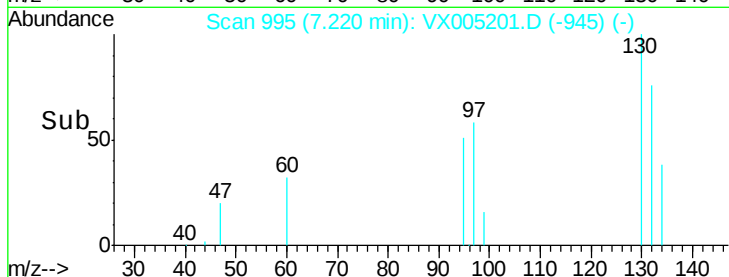
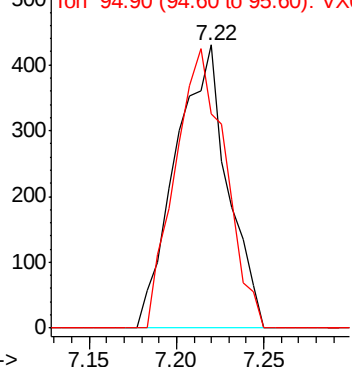
#44
 Trichloroethene
 Concen: 0.37 ug/l
 RT: 7.22 min Scan# 995
 Delta R.T. 0.01 min
 Lab File: VX005201.D
 Acq: 10 Oct 2018 11:00

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW516-3034

Tgt Ion:130 Resp: 895
 Ion Ratio Lower Upper
 130 100
 95 75.8 0.0 186.8

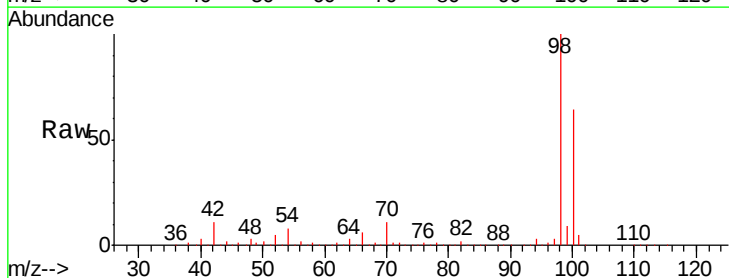


Abundance Ion 129.80 (129.50 to 130.50): V

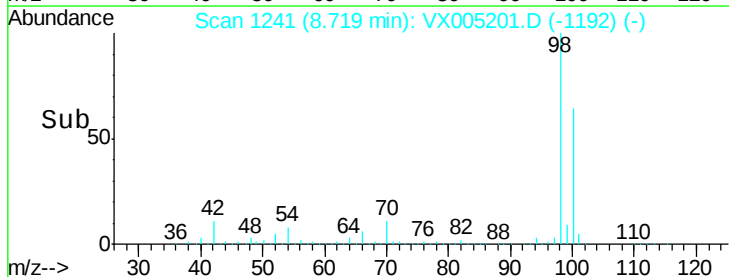
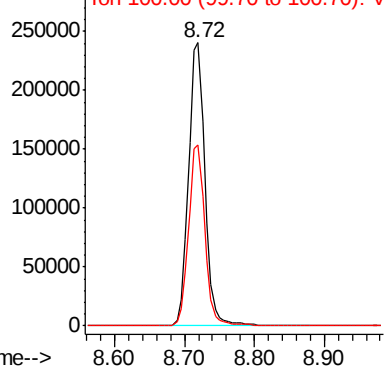


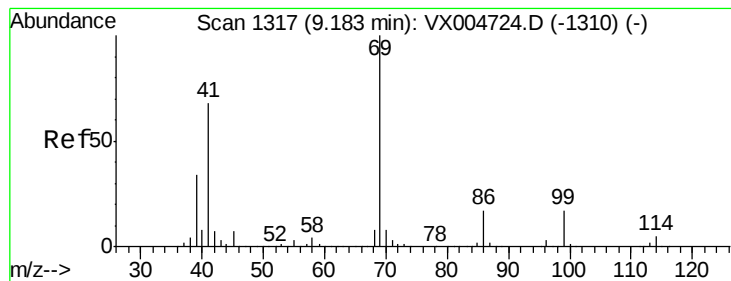
#50
 Toluene-d8
 Concen: 51.16 ug/l
 RT: 8.72 min Scan# 1241
 Delta R.T. -0.00 min
 Lab File: VX005201.D
 Acq: 10 Oct 2018 11:00

Tgt Ion: 98 Resp: 394189
 Ion Ratio Lower Upper
 98 100
 100 63.4 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0





#56

Ethyl methacrylate

Concen: 2.95 ug/l

RT: 9.04 min Scan# 1294

Delta R.T. -0.14 min

Lab File: VX005201.D

Acq: 10 Oct 2018 11:00

Instrument :

MSVOA_X

ClientSampleId :

SA-TW516-3034

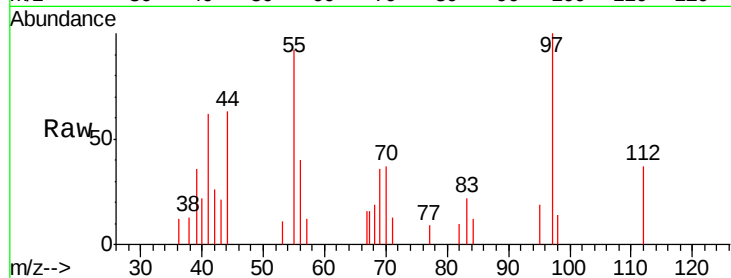
Tgt Ion: 69 Resp: 380

Ion Ratio Lower Upper

69 100

41 190.0 56.9 85.3#

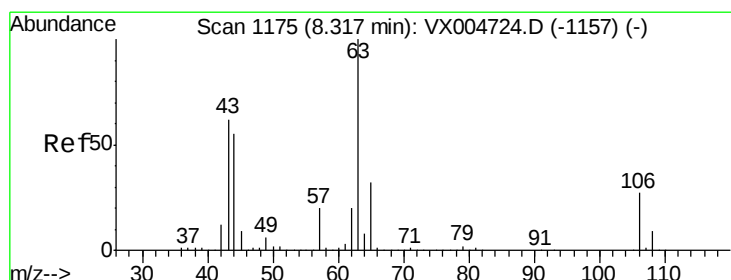
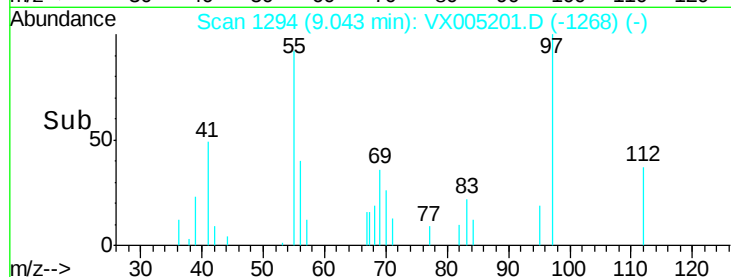
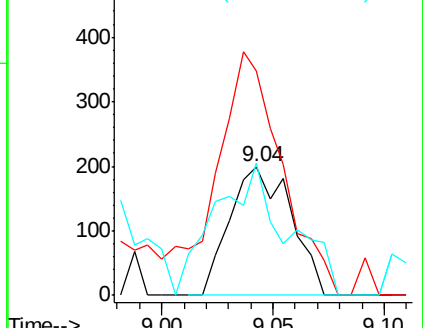
39 121.8 28.4 42.6#



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: 14.25 ug/l

RT: 8.35 min Scan# 1180

Delta R.T. 0.03 min

Lab File: VX005201.D

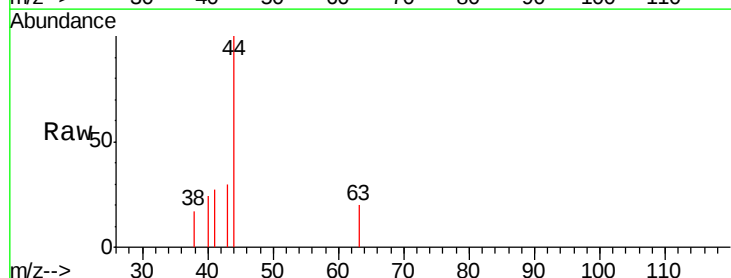
Acq: 10 Oct 2018 11:00

Tgt Ion: 63 Resp: 23

Ion Ratio Lower Upper

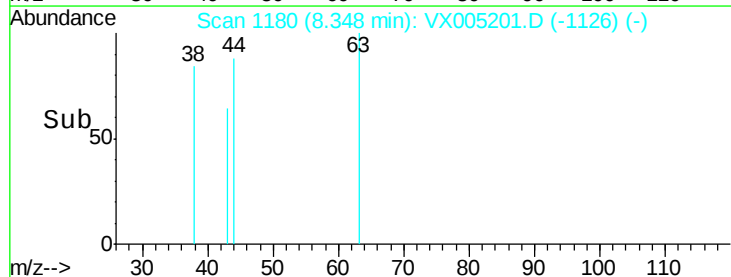
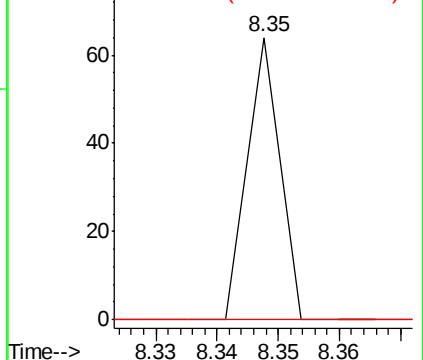
63 100

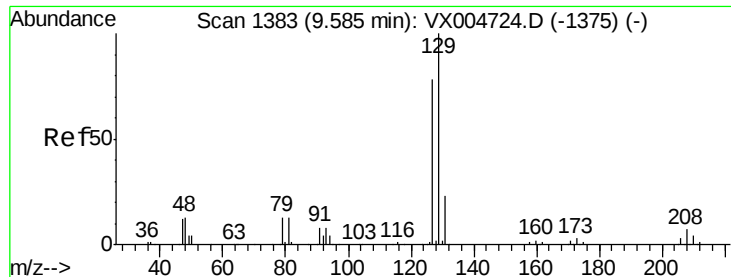
106 0.0 21.0 31.6#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

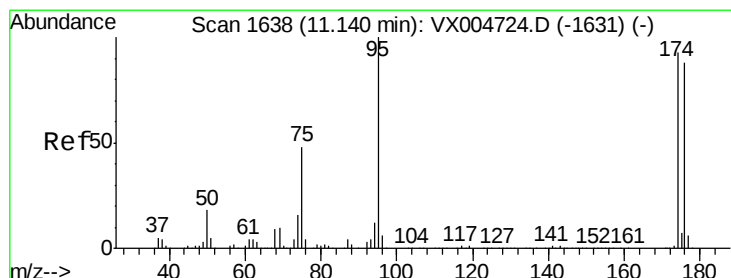
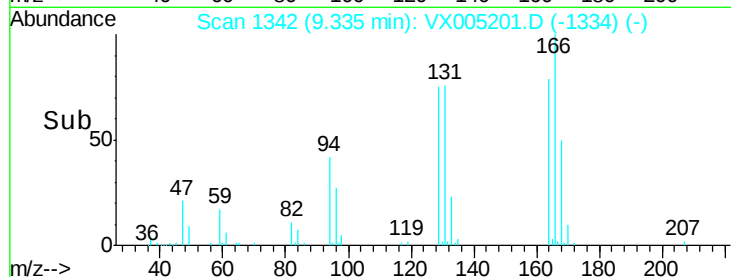
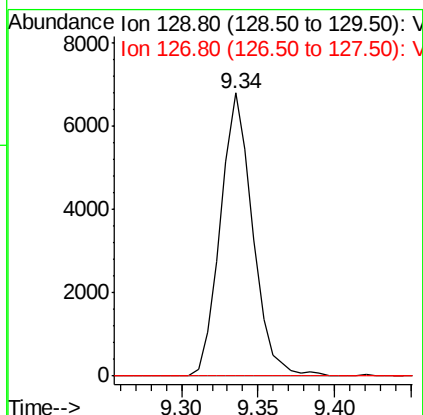
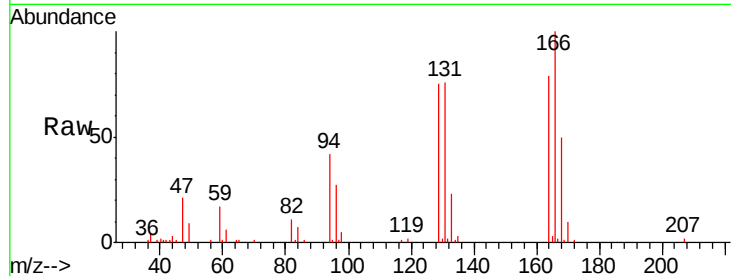




#60
Dibromochloromethane
Concen: 4.18 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.25 min
Lab File: VX005201.D
Acq: 10 Oct 2018 11:00

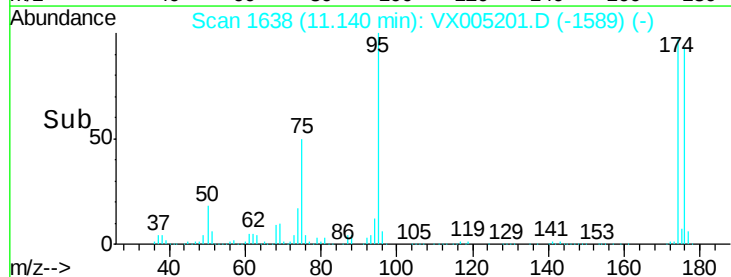
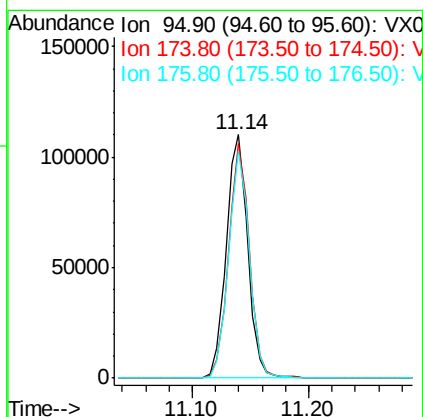
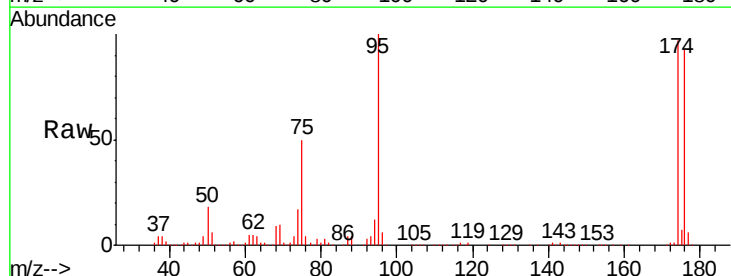
Instrument :
MSVOA_X
ClientSampleId :
SA-TW516-3034

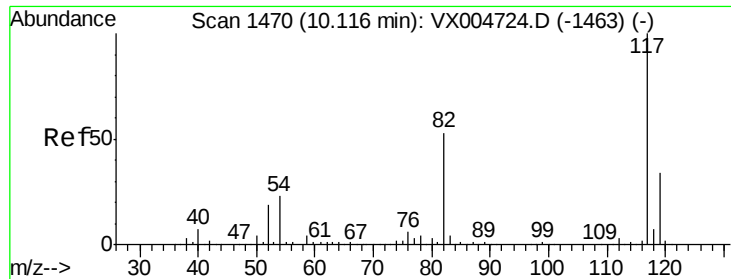
Tgt Ion: 129 Resp: 9956
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.2#



#62
4-Bromofluorobenzene
Concen: 50.73 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005201.D
Acq: 10 Oct 2018 11:00

Tgt Ion: 95 Resp: 140804
Ion Ratio Lower Upper
95 100
174 94.0 0.0 185.0
176 91.0 0.0 180.2

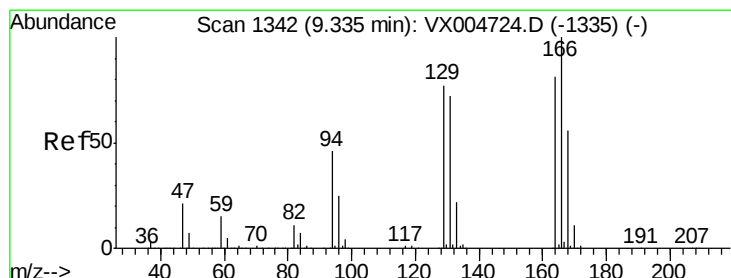
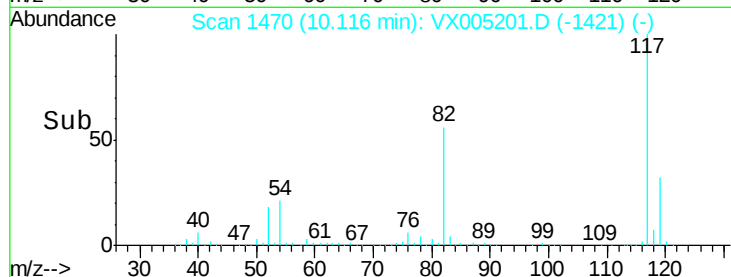
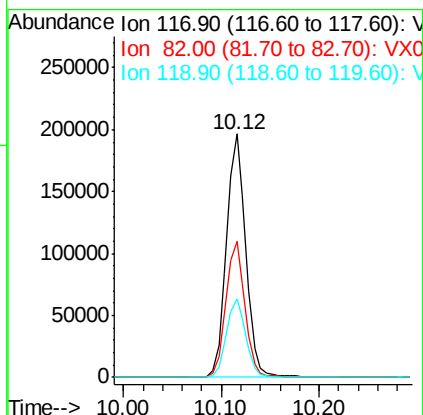
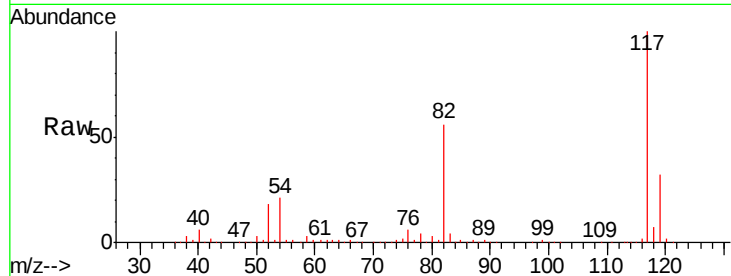




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005201.D
Acq: 10 Oct 2018 11:00

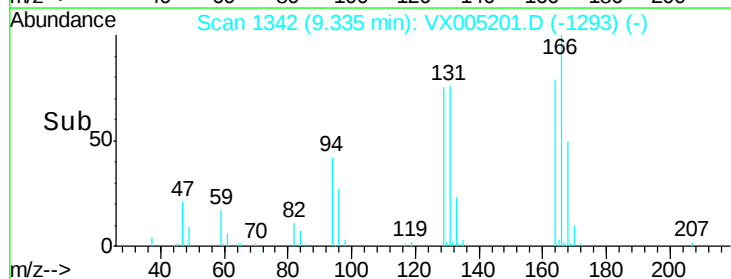
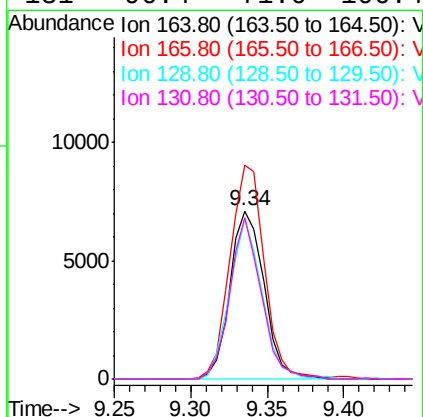
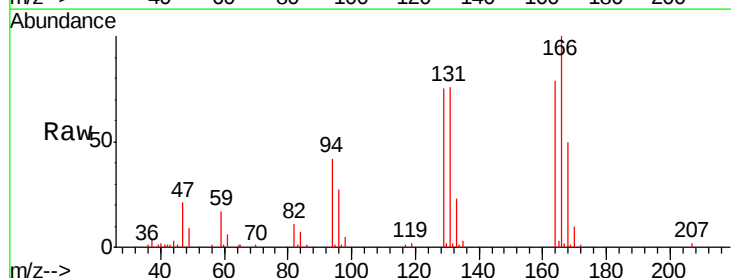
Instrument :
MSVOA_X
ClientSampleId :
SA-TW516-3034

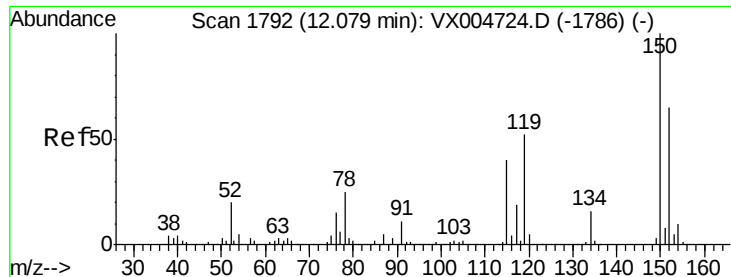
Tgt Ion:117 Resp: 269360
Ion Ratio Lower Upper
117 100
82 56.0 42.2 63.4
119 32.4 27.4 41.0



#64
Tetrachloroethene
Concen: 4.13 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX005201.D
Acq: 10 Oct 2018 11:00

Tgt Ion:164 Resp: 10943
Ion Ratio Lower Upper
164 100
166 127.2 98.4 147.6
129 95.7 76.1 114.1
131 96.4 71.0 106.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005201.D

Acq: 10 Oct 2018 11:00

Instrument :

MSVOA_X

ClientSampleId :

SA-TW516-3034

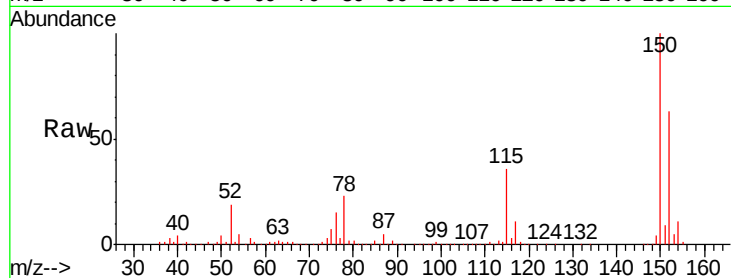
Tgt Ion: 152 Resp: 151582

Ion Ratio Lower Upper

152 100

115 56.2 40.2 120.6

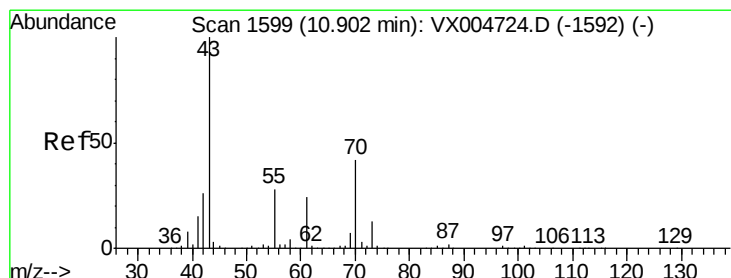
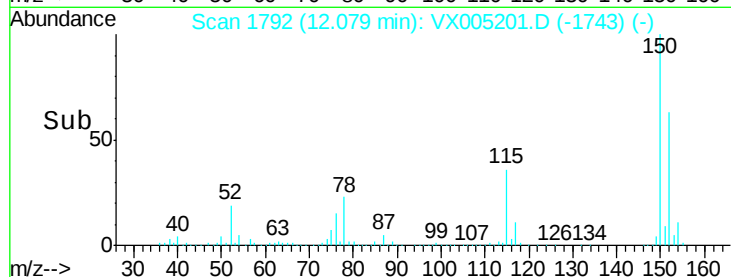
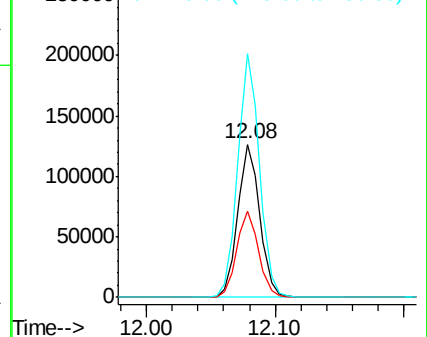
150 157.5 0.0 351.0



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



#74

N-ethyl acetate

Concen: 1.79 ug/l

RT: 10.93 min Scan# 1603

Delta R.T. 0.02 min

Lab File: VX005201.D

Acq: 10 Oct 2018 11:00

Tgt Ion: 43 Resp: 220

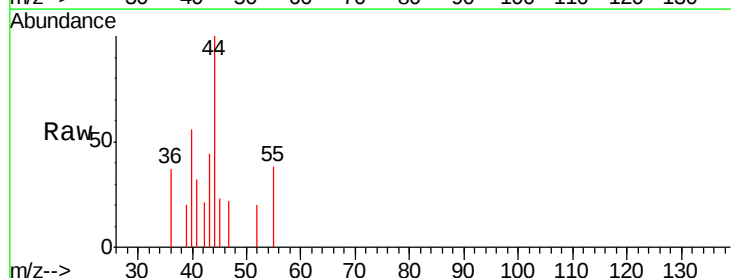
Ion Ratio Lower Upper

43 100

70 29.5 32.6 48.8#

55 146.4 21.6 32.4#

61 0.0 19.1 28.7#

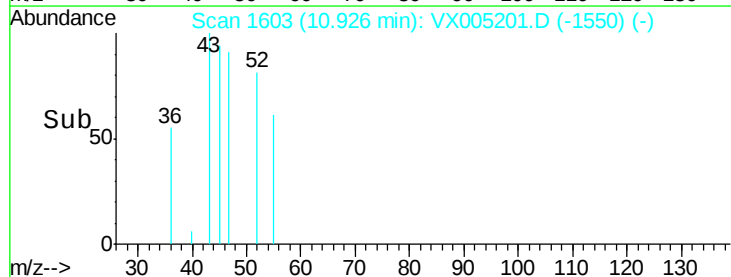
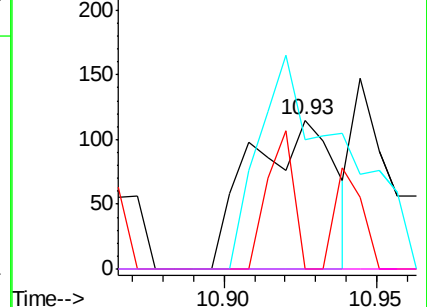


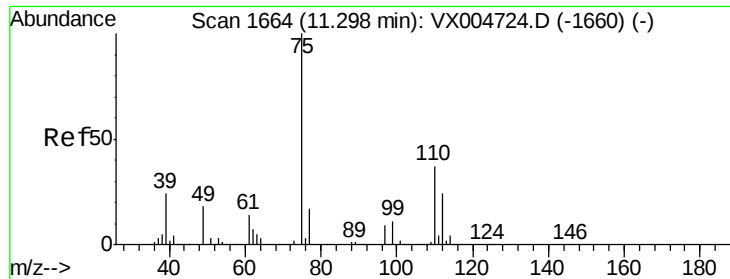
Abundance Ion 43.00 (42.70 to 43.70): VX0

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

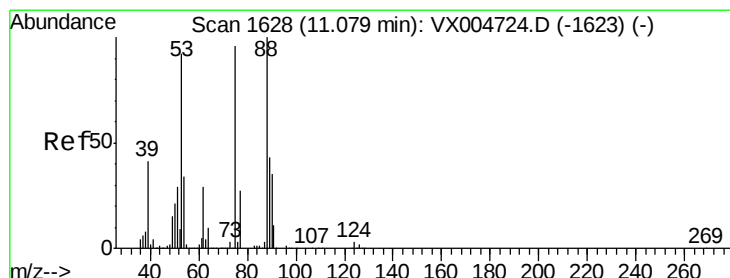
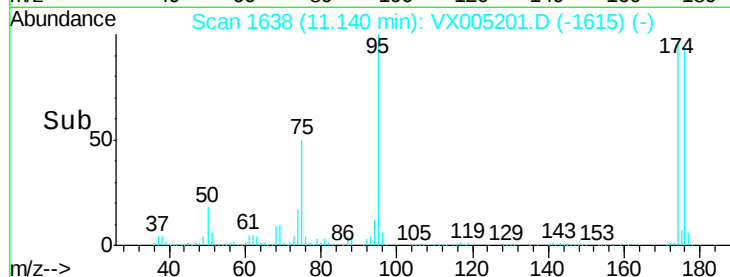
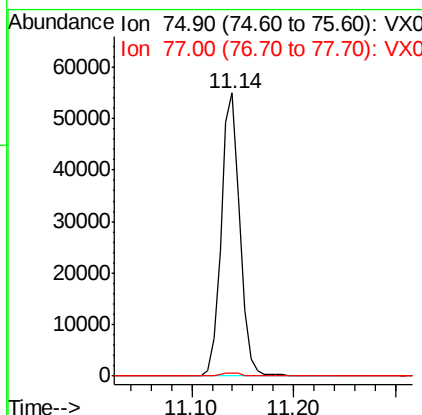
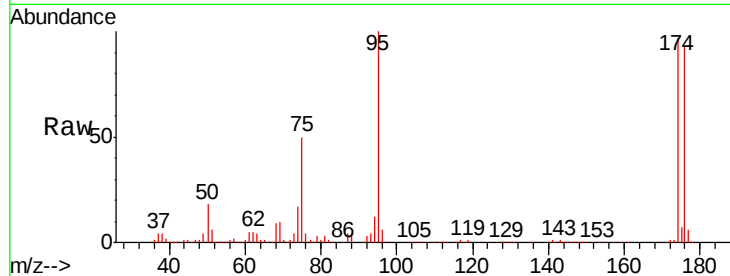




#76
 1,2,3-Trichloropropane
 Concen: 20.62 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX005201.D
 Acq: 10 Oct 2018 11:00

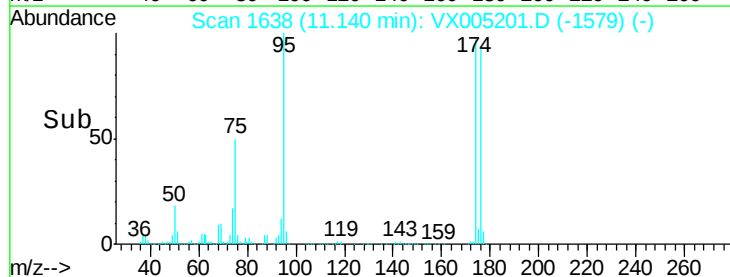
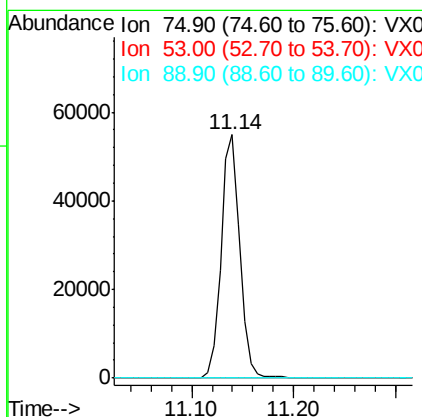
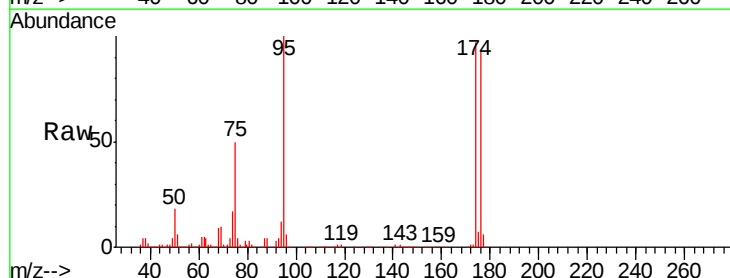
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW516-3034

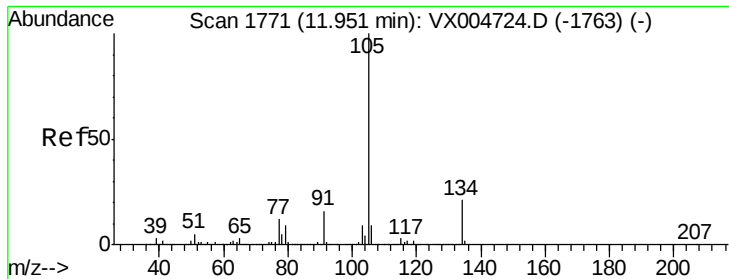
Tgt Ion: 75 Resp: 70070
 Ion Ratio Lower Upper
 75 100
 77 1.5 21.4 64.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.00 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.06 min
 Lab File: VX005201.D
 Acq: 10 Oct 2018 11:00

Tgt Ion: 75 Resp: 70070
 Ion Ratio Lower Upper
 75 100
 53 0.3 80.2 120.4#
 89 0.1 37.1 55.7#

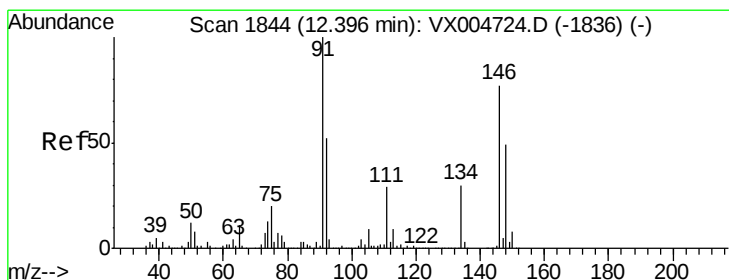
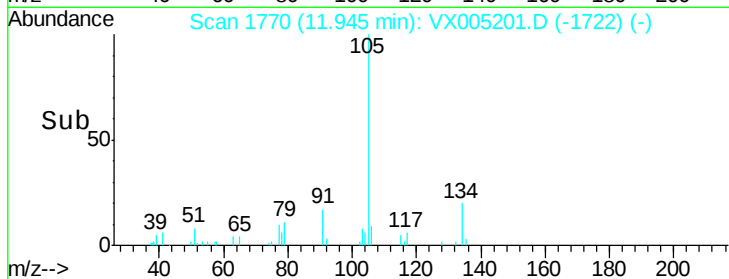
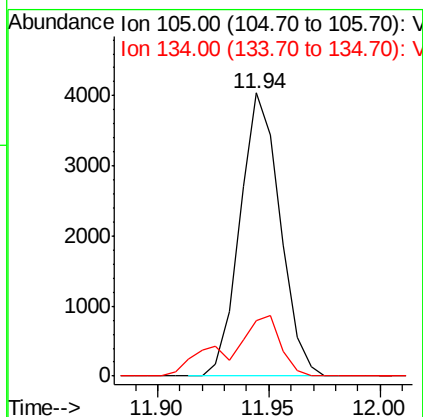
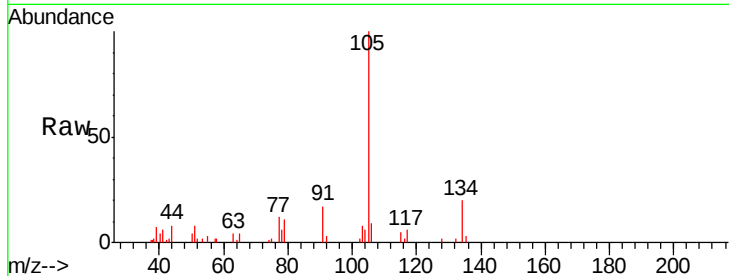




#85
 sec-Butylbenzene
 Concen: 0.53 ug/l
 RT: 11.94 min Scan# 1770
 Delta R.T. -0.01 min
 Lab File: VX005201.D
 Acq: 10 Oct 2018 11:00

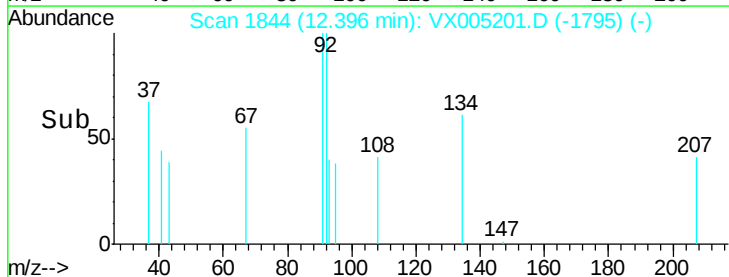
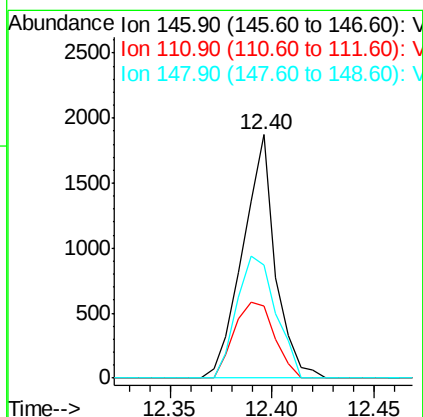
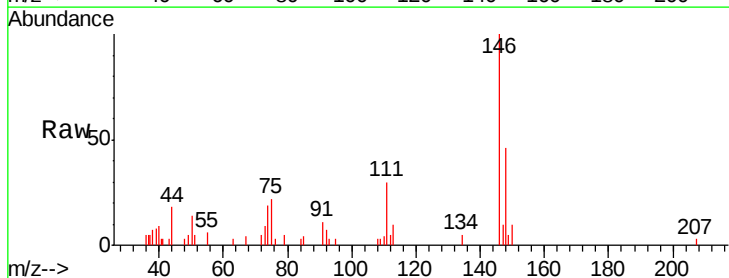
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW516-3034

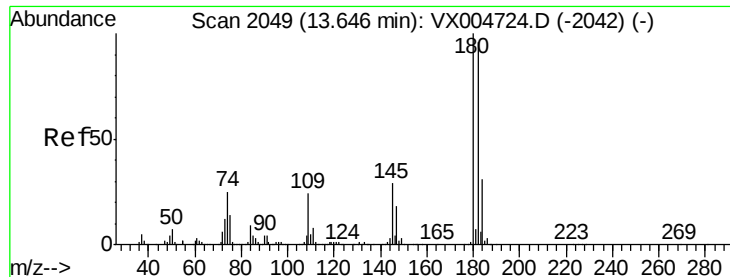
Tgt Ion:105 Resp: 5068
 Ion Ratio Lower Upper
 105 100
 134 28.6 10.2 30.4



#91
 1,2-Dichlorobenzene
 Concen: 0.38 ug/l
 RT: 12.40 min Scan# 1844
 Delta R.T. -0.00 min
 Lab File: VX005201.D
 Acq: 10 Oct 2018 11:00

Tgt Ion:146 Resp: 2083
 Ion Ratio Lower Upper
 146 100
 111 38.5 19.6 58.7
 148 59.9 31.8 95.4

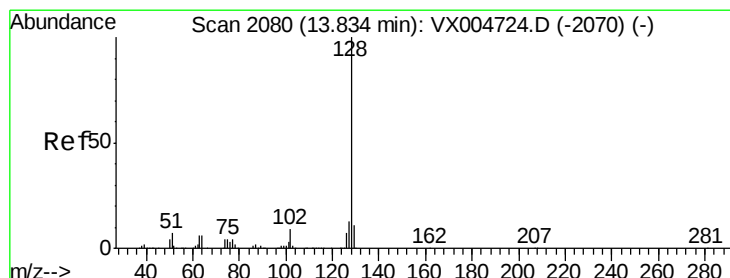
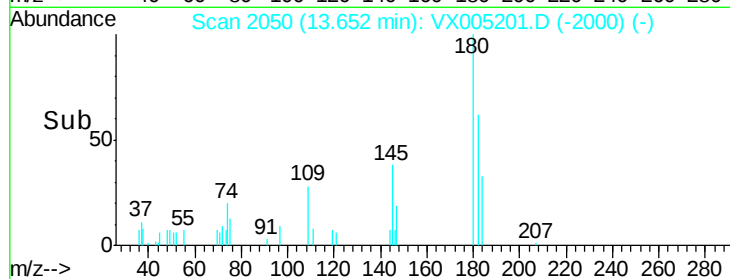
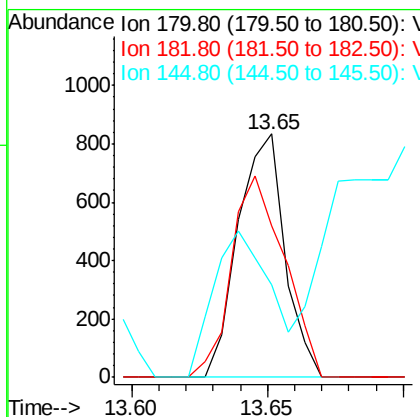
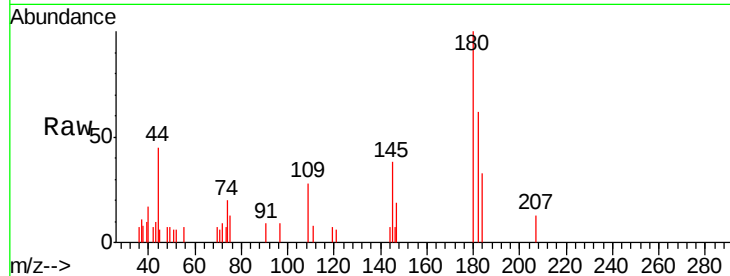




#93
 1,2,4-Trichlorobenzene
 Concen: 0.26 ug/l
 RT: 13.65 min Scan# 2050
 Delta R.T. 0.01 min
 Lab File: VX005201.D
 Acq: 10 Oct 2018 11:00

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW516-3034

Tgt Ion:180 Resp: 991
 Ion Ratio Lower Upper
 180 100
 182 94.0 47.8 143.4
 145 73.9 14.1 42.4#



#95
 Naphthalene
 Concen: 0.77 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VX005201.D
 Acq: 10 Oct 2018 11:00

Tgt Ion:128 Resp: 583
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.4 15.6#
 129 25.0 8.7 13.1#

