

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050919\
 Data File : VX009440.D
 Acq On : 09 May 2019 20:04
 Operator : JC/SP
 Sample : K2786-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 10 07:09:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

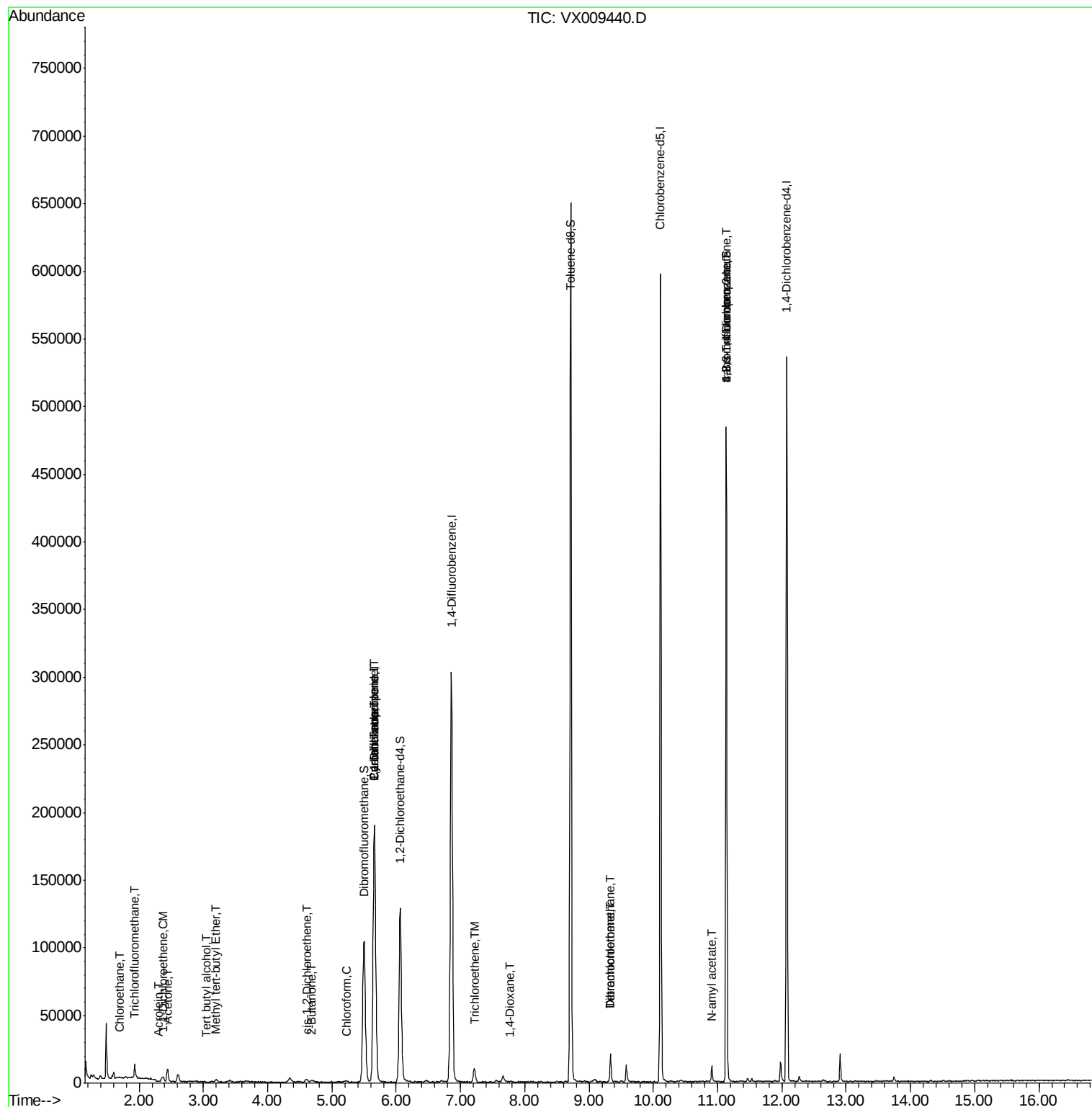
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	186269	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	299061	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	260470	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	112086	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	121868	47.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.86%	
35) Dibromofluoromethane	5.50	113	89961	47.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.70%	
50) Toluene-d8	8.71	98	371715	48.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.94%	
62) 4-Bromofluorobenzene	11.13	95	122078	44.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.52%	
Target Compounds						
					Qvalue	
6) Chloroethane	1.70	64	1445	0.985	ug/l #	43
7) Trichlorofluoromethane	1.93	101	6033	2.172	ug/l	92
11) Tert butyl alcohol	3.05	59	158	0.268	ug/l #	73
12) 1,1-Dichloroethene	2.38	96	980	0.561	ug/l	91
13) Acrolein	2.30	56	337	0.632	ug/l #	78
16) Acetone	2.44	43	10369	7.594	ug/l	99
19) Methyl tert-butyl Ether	3.20	73	1834	0.270	ug/l	97
25) 2-Butanone	4.68	43	2023	0.953	ug/l #	53
27) cis-1,2-Dichloroethene	4.60	96	1131	0.500	ug/l	87
28) Bromochloromethane	4.95	49	24	Below Cal	#	20
30) Chloroform	5.21	83	1116	0.305	ug/l	91
31) Cyclohexane	5.66	56	4113	1.094	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14444	5.197	ug/l #	51
38) Carbon Tetrachloride	5.66	117	17633	6.983	ug/l #	16
44) Trichloroethene	7.21	130	3779	1.817	ug/l	97
49) 1,4-Dioxane	7.77	88	31	0.497	ug/l #	20
60) Dibromochloromethane	9.34	129	3758	1.804	ug/l #	11
64) Tetrachloroethene	9.34	164	4217	2.360	ug/l	94
74) N-amyl acetate	10.91	43	2105	0.443	ug/l #	37
76) 1,2,3-Trichloropropane	11.13	75	61636	23.706	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	61636	60.656	ug/l #	10

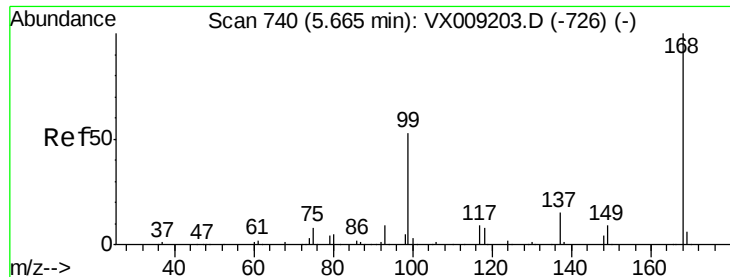
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009440.D

Acq: 09 May 2019 20:04

Instrument :

MSVOA_X

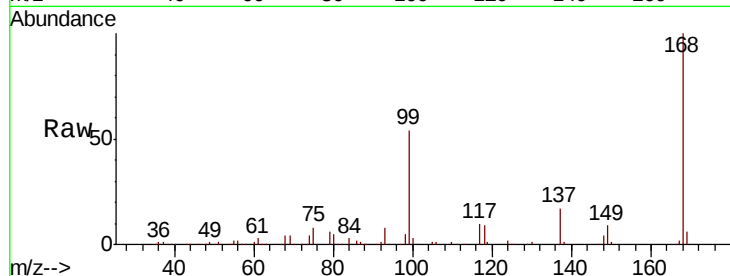
ClientSampled :

Tot Ion:168 Resp: 186269

Ion Ratio Lower Upper

168 100

99 54.2 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

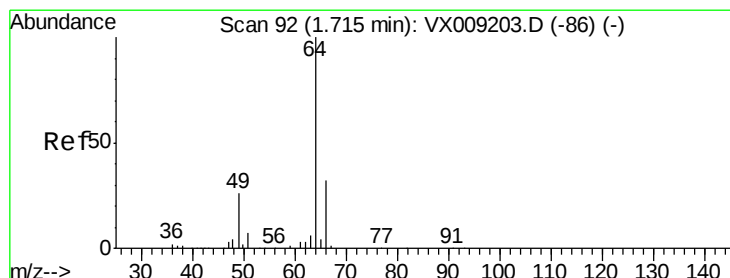
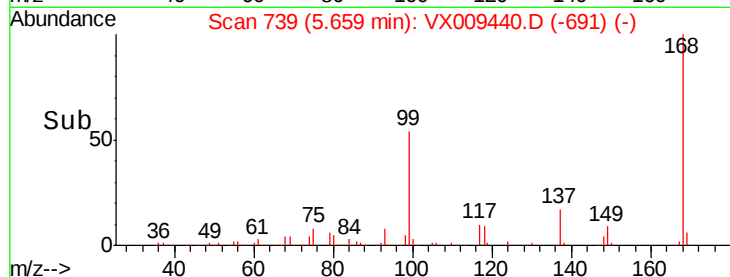
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 0.985 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX009440.D

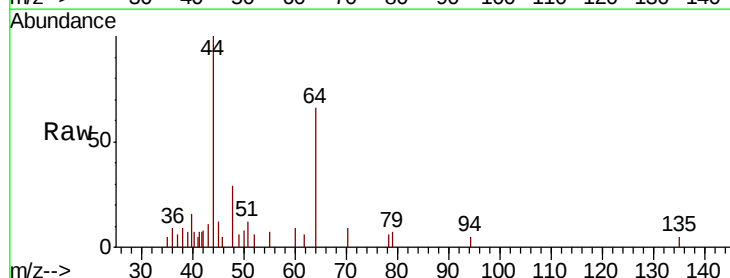
Acq: 09 May 2019 20:04

Tgt Ion: 64 Resp: 1445

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.70

800

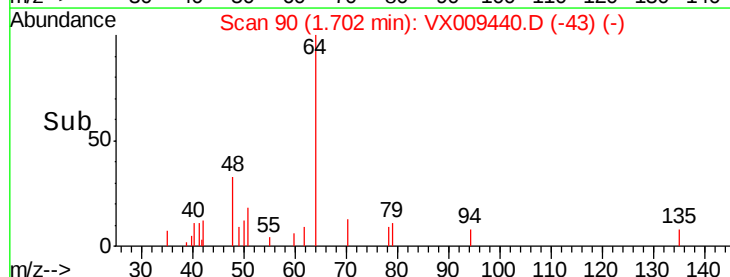
600

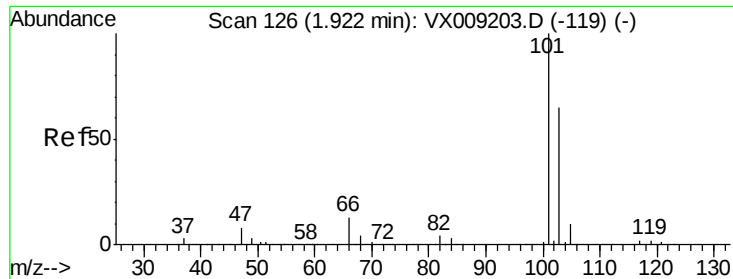
400

200

0

Time--> 1.60 1.65 1.70



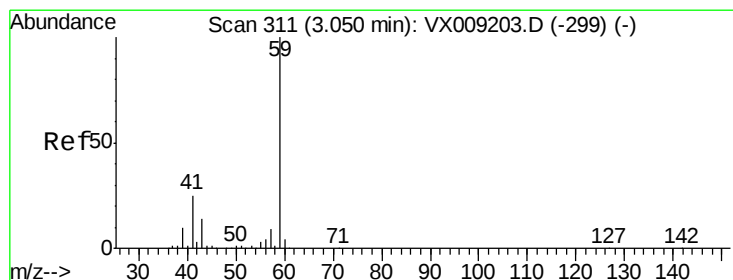
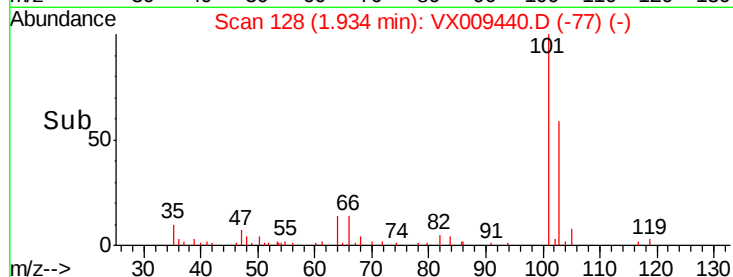
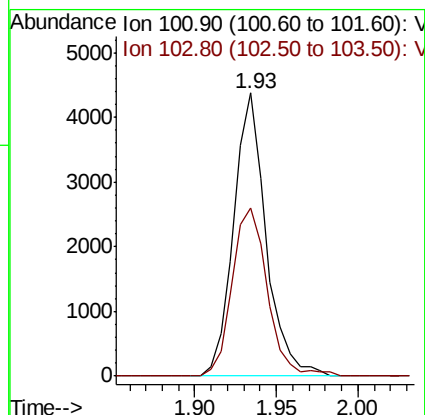
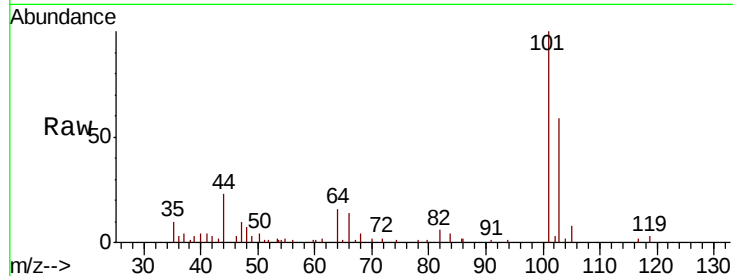


#7

Trichlorofluoromethane
Concen: 2.172 ug/l
RT: 1.93 min Scan# 128
Delta R.T. 0.01 min
Lab File: VX009440.D
Acq: 09 May 2019 20:04

Instrument :
MSVOA_X
ClientSampleId :

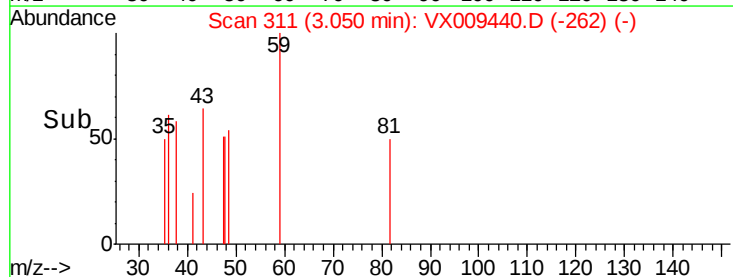
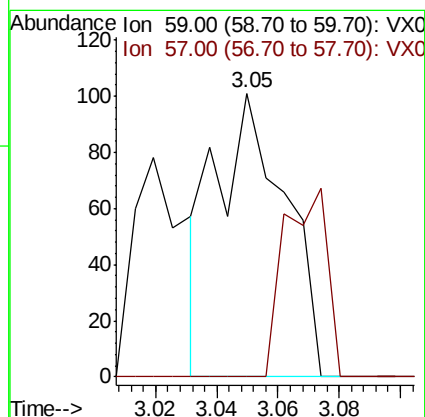
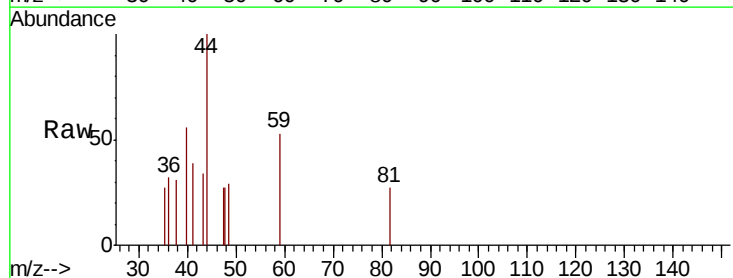
Tot Ion:101 Resp: 6033
Ion Ratio Lower Upper
101 100
103 59.4 52.4 78.6

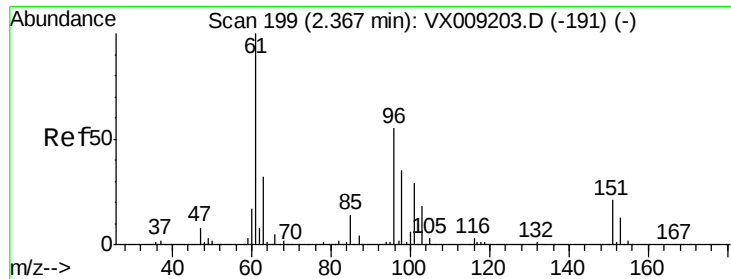


#11

Tert butyl alcohol
Concen: 0.268 ug/l
RT: 3.05 min Scan# 311
Delta R.T. -0.00 min
Lab File: VX009440.D
Acq: 09 May 2019 20:04

Tgt Ion: 59 Resp: 158
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#12

1,1-Dichloroethene

Concen: 0.561 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX009440.D

Acq: 09 May 2019 20:04

Instrument :
MSVOA_X
ClientSampled :

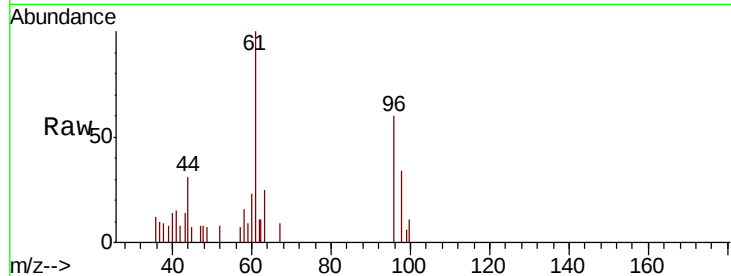
Tot Ion: 96 Resp: 980

Ion Ratio Lower Upper

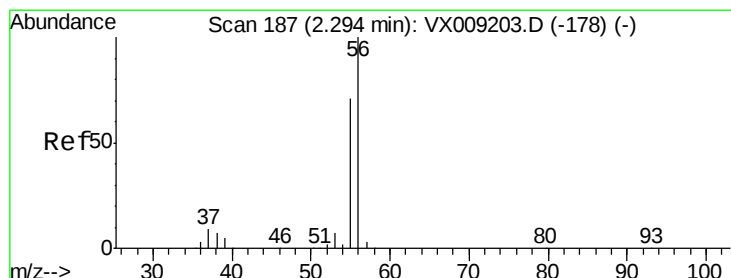
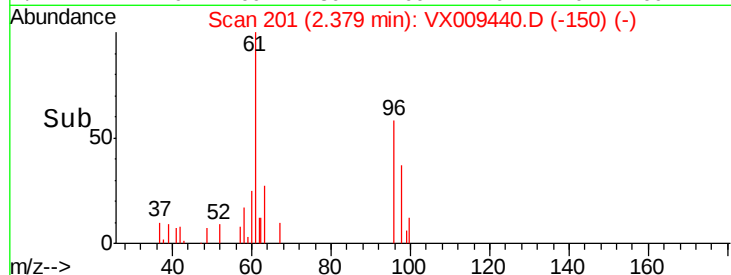
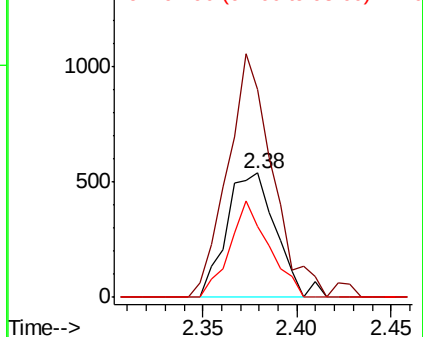
96 100

61 167.0 144.3 216.5

98 56.9 50.3 75.5



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



#13

Acrolein

Concen: 0.632 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX009440.D

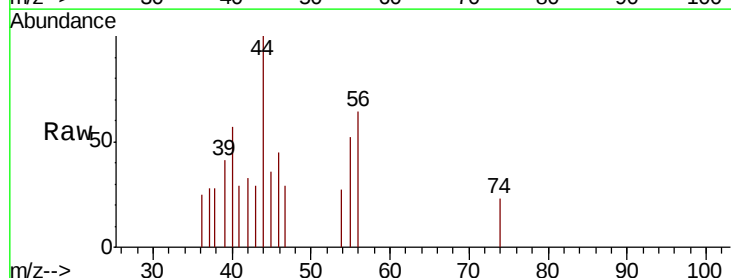
Acq: 09 May 2019 20:04

Tgt Ion: 56 Resp: 337

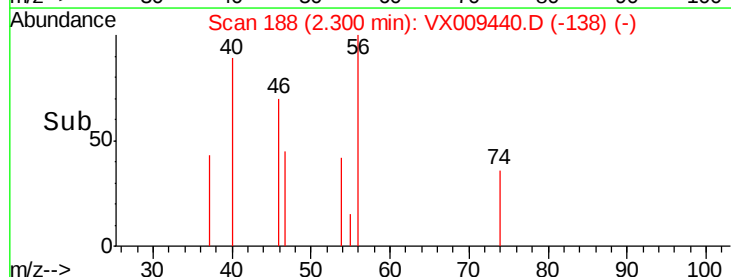
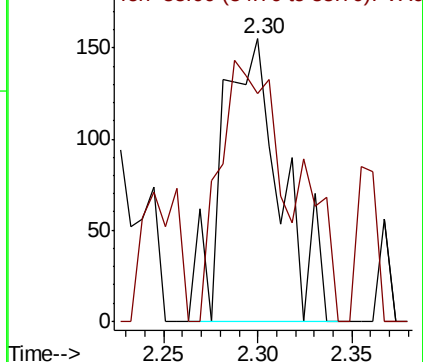
Ion Ratio Lower Upper

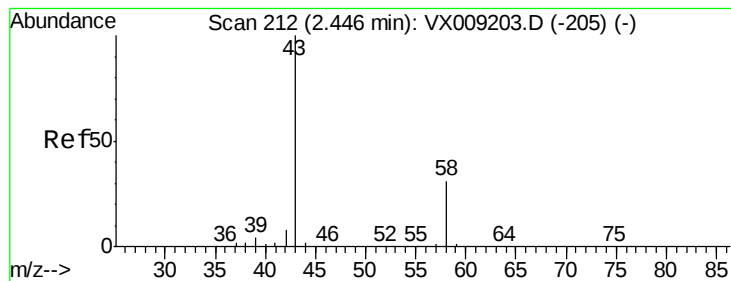
56 100

55 89.3 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 7.594 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009440.D

Acq: 09 May 2019 20:04

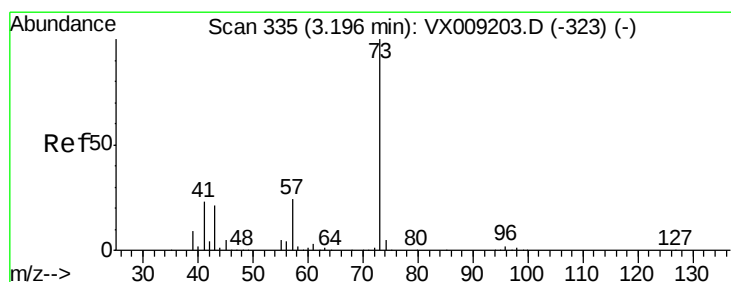
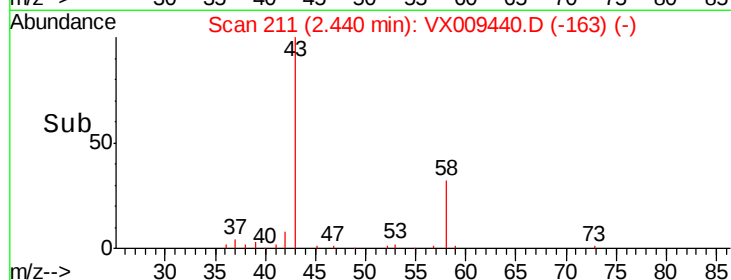
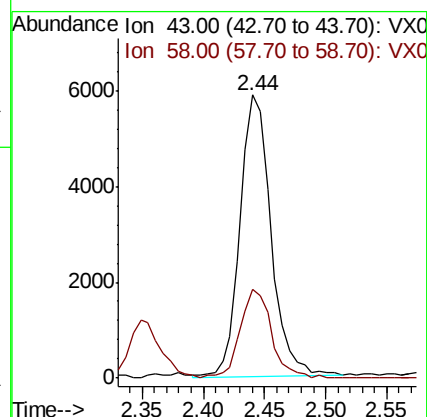
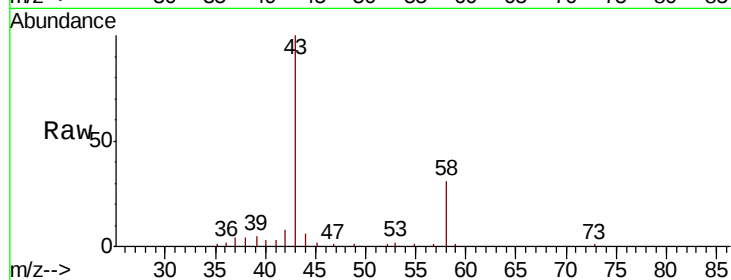
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 10369

Ion Ratio Lower Upper

43 100

58 31.6 24.9 37.3



#19

Methyl tert-butyl Ether

Concen: 0.270 ug/l

RT: 3.20 min Scan# 335

Delta R.T. -0.00 min

Lab File: VX009440.D

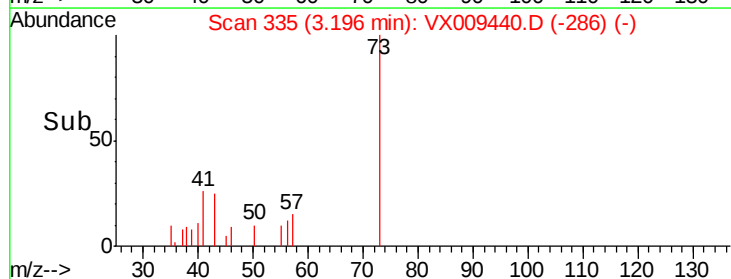
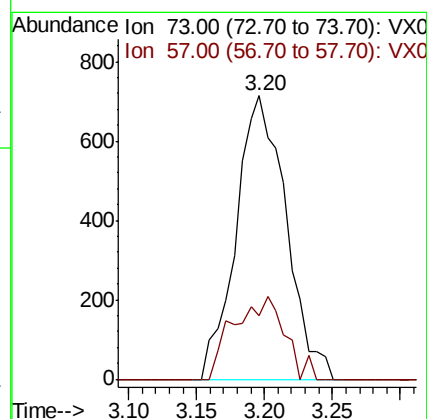
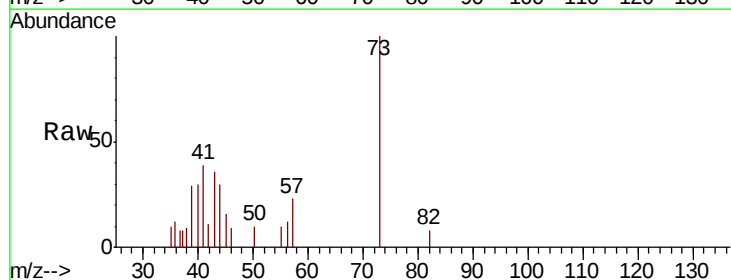
Acq: 09 May 2019 20:04

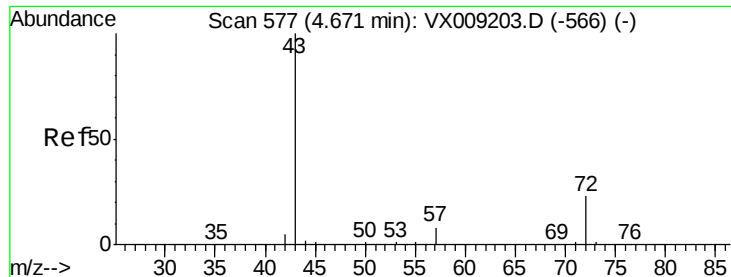
Tgt Ion: 73 Resp: 1834

Ion Ratio Lower Upper

73 100

57 22.5 19.3 28.9





#25

2-Butanone

Concen: 0.953 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX009440.D

Acq: 09 May 2019 20:04

Instrument :

MSVOA_X

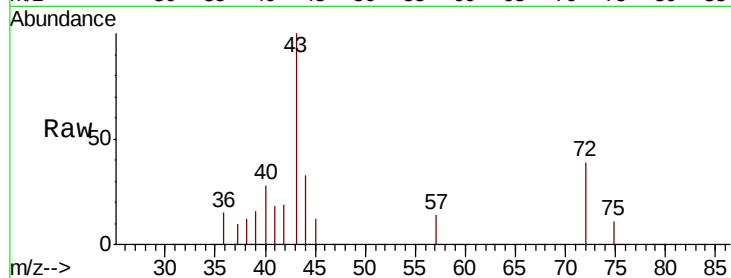
ClientSampleId :

Tot Ion: 43 Resp: 2023

Ion Ratio Lower Upper

43 100

72 45.2 18.2 27.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.68

600

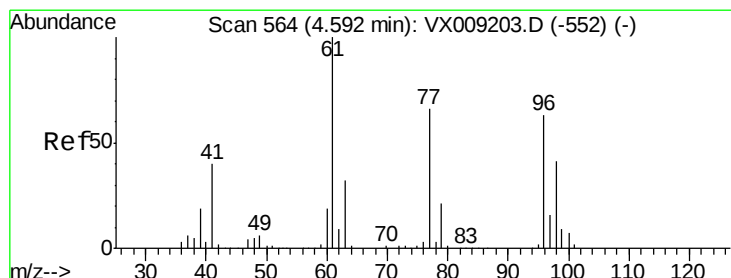
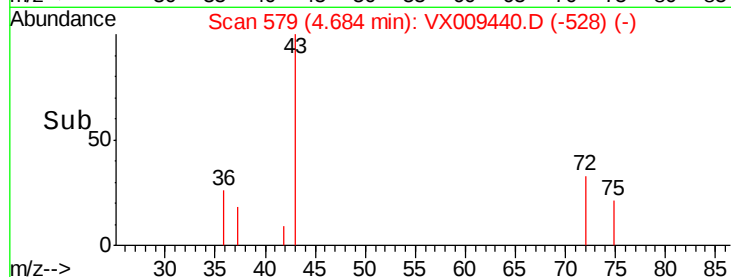
400

200

0

4.60 4.65 4.70 4.75

Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.500 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX009440.D

Acq: 09 May 2019 20:04

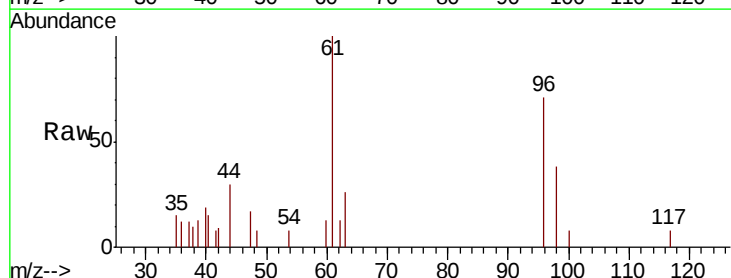
Tgt Ion: 96 Resp: 1131

Ion Ratio Lower Upper

96 100

61 163.0 0.0 324.0

98 31.8 0.0 130.4



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

800

600

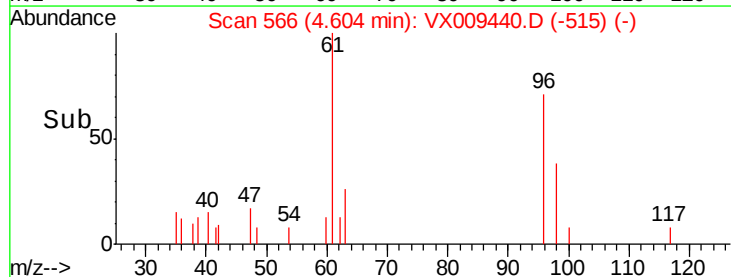
400

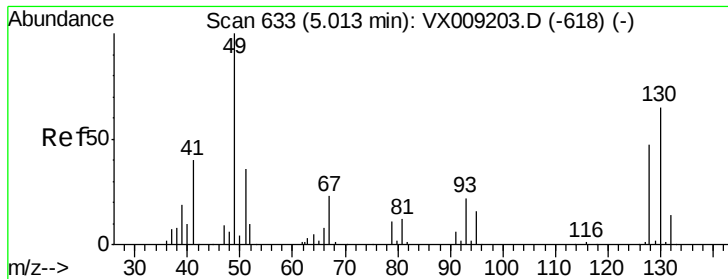
200

0

4.55 4.60 4.65

Time-->





#28

Bromochloromethane

Concen: Below Cal

RT: 4.95 min Scan# 622

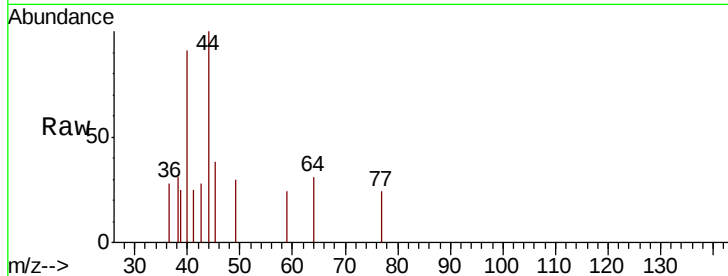
Delta R.T. -0.07 min

Lab File: VX009440.D

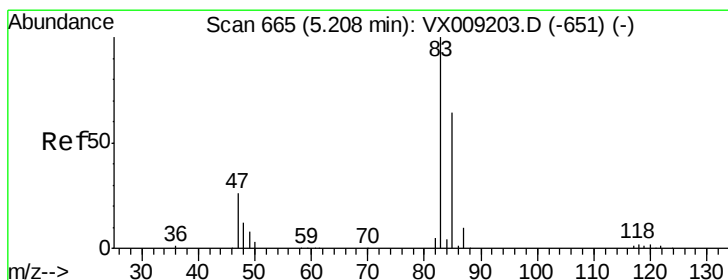
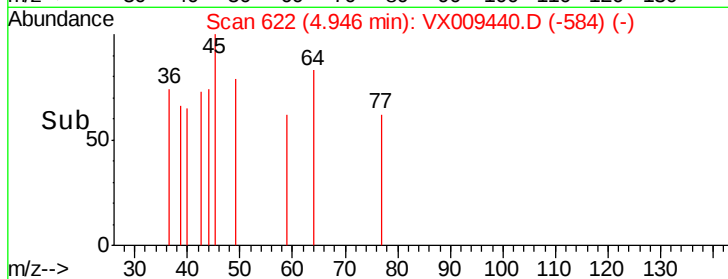
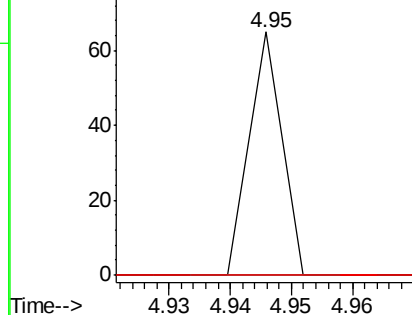
Acq: 09 May 2019 20:04

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 49 Resp: 24
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V



#30

Chloroform

Concen: 0.305 ug/l

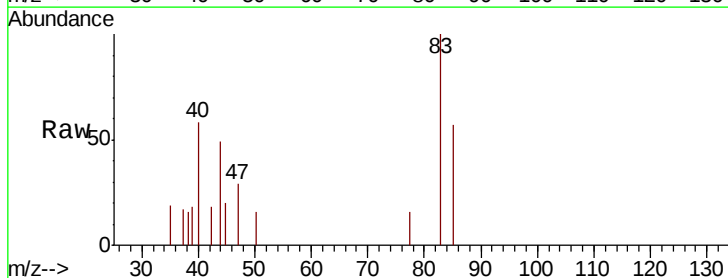
RT: 5.21 min Scan# 666

Delta R.T. 0.01 min

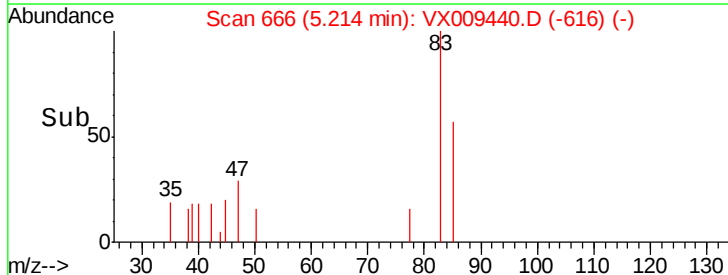
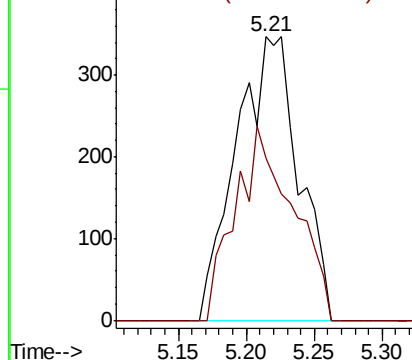
Lab File: VX009440.D

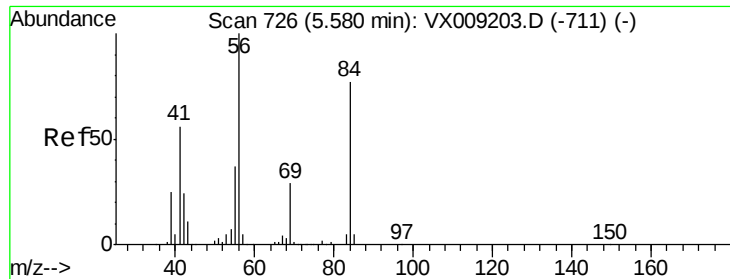
Acq: 09 May 2019 20:04

Tgt Ion: 83 Resp: 1116
Ion Ratio Lower Upper
83 100
85 57.3 51.5 77.3



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0

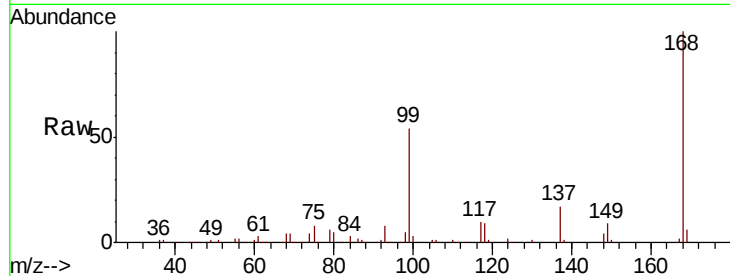




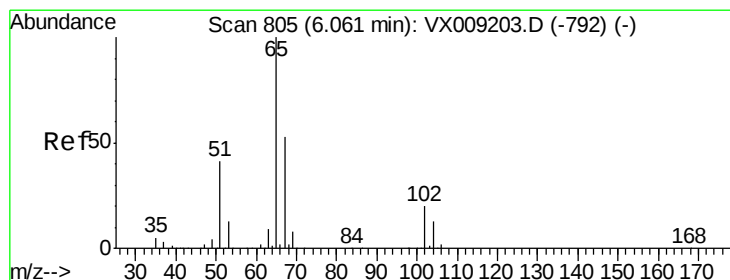
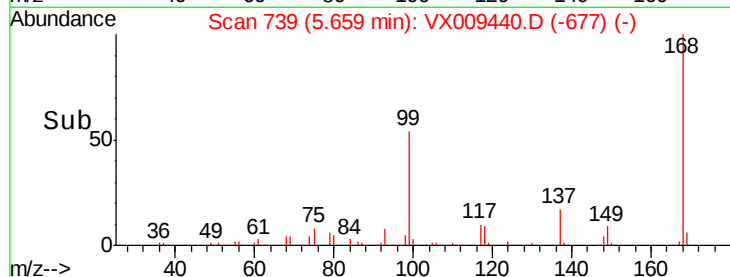
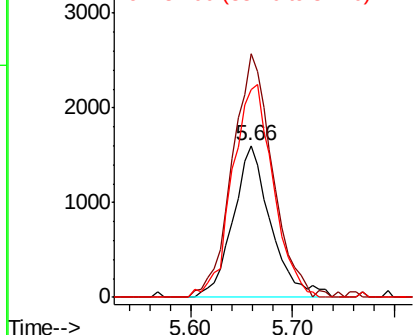
#31
Cyclohexane
Concen: 1.094 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX009440.D
Acq: 09 May 2019 20:04

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 4113
Ion Ratio Lower Upper
56 100
69 160.1 23.4 35.0#
84 136.6 61.9 92.9#

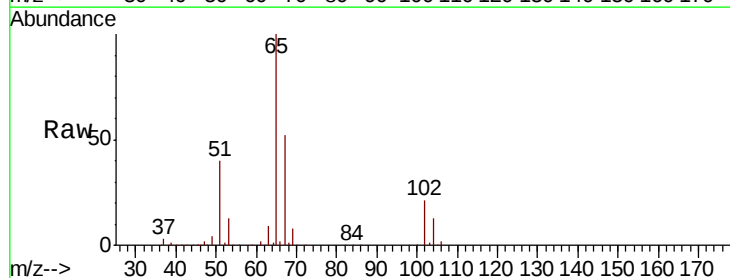


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

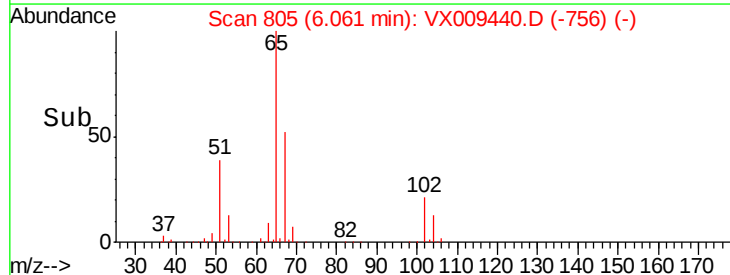
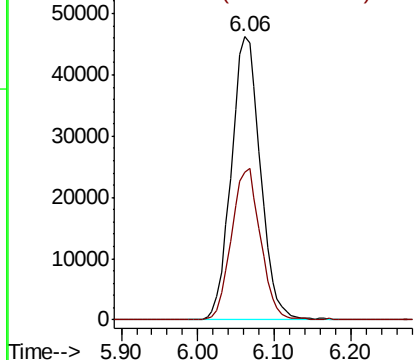


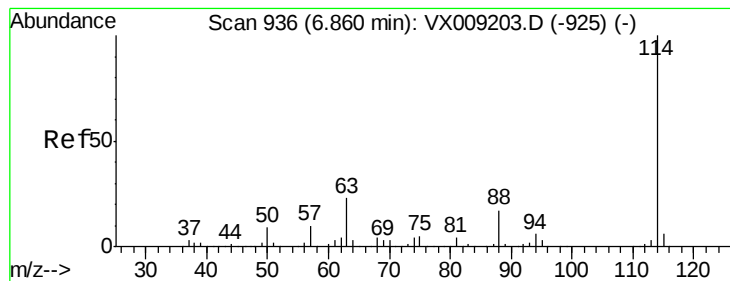
#33
1,2-Dichloroethane-d4
Concen: 47.927 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX009440.D
Acq: 09 May 2019 20:04

Tgt Ion: 65 Resp: 121868
Ion Ratio Lower Upper
65 100
67 53.4 0.0 106.6



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX009440.D

Acq: 09 May 2019 20:04

Instrument :

MSVOA_X

ClientSampleId :

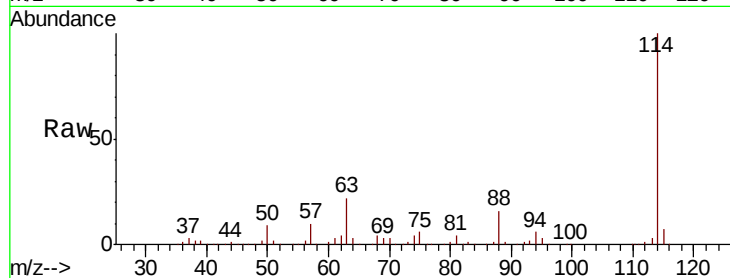
Tot Ion:114 Resp: 299061

Ion Ratio Lower Upper

114 100

63 22.3 0.0 45.6

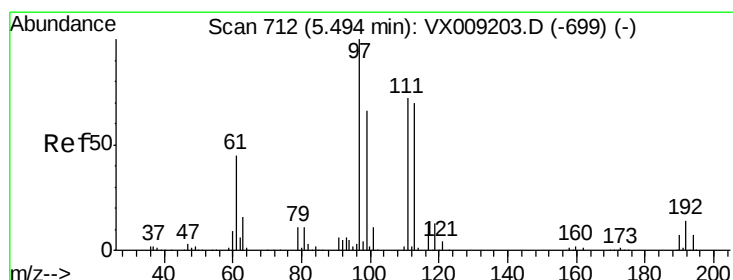
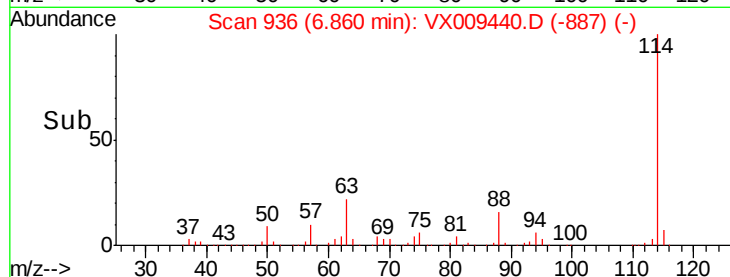
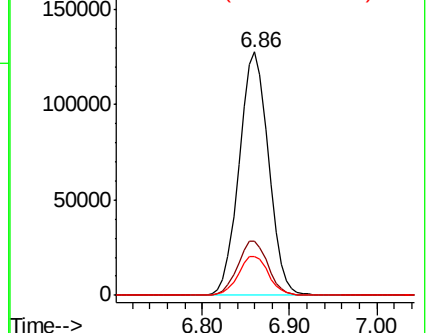
88 15.7 0.0 33.2



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: 47.851 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX009440.D

Acq: 09 May 2019 20:04

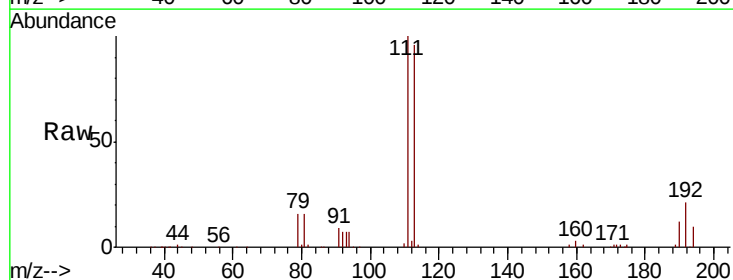
Tgt Ion:113 Resp: 89961

Ion Ratio Lower Upper

113 100

111 103.4 82.8 124.2

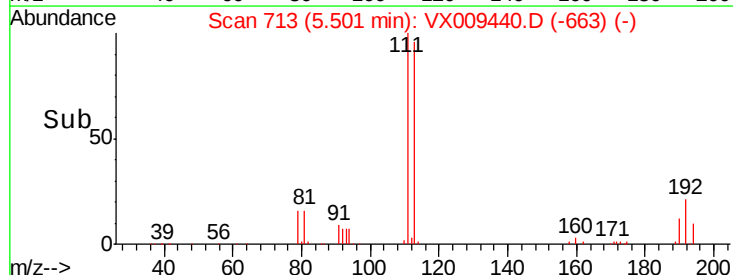
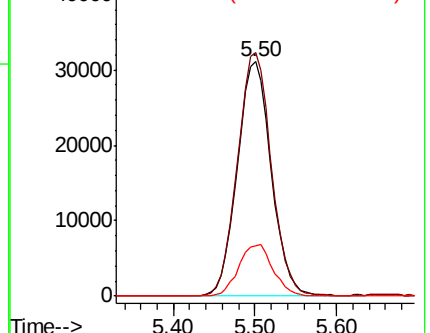
192 22.2 17.0 25.6

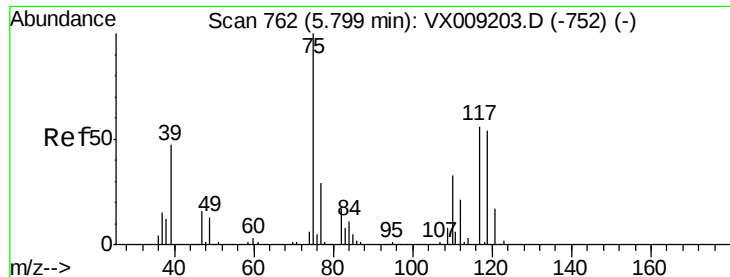


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.197 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009440.D

Acq: 09 May 2019 20:04

Instrument :

MSVOA_X

ClientSampleId :

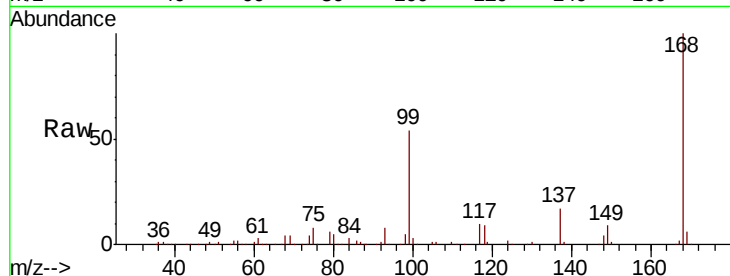
Tot Ion: 75 Resp: 14444

Ion Ratio Lower Upper

75 100

110 9.2 16.9 50.6#

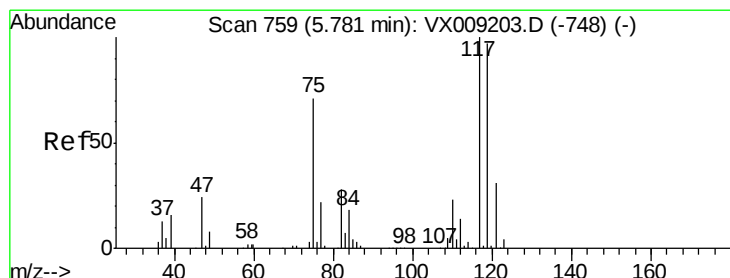
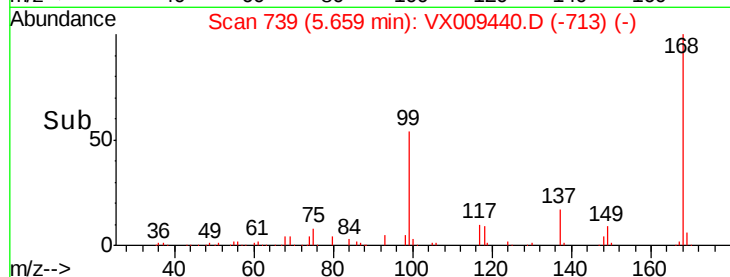
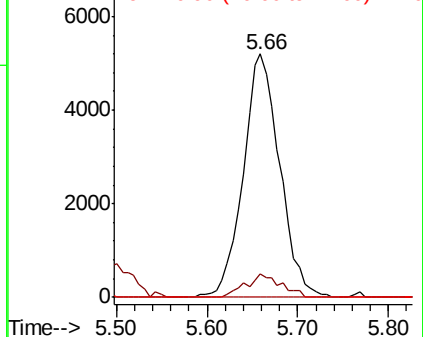
77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.983 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX009440.D

Acq: 09 May 2019 20:04

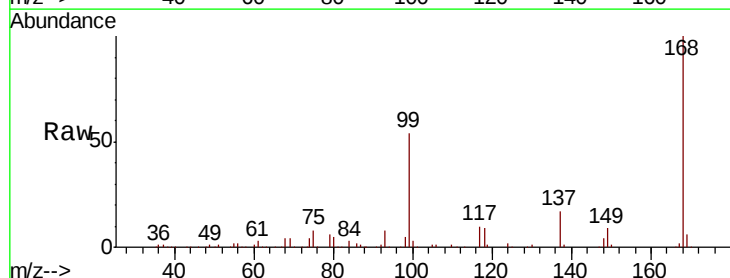
Tgt Ion:117 Resp: 17633

Ion Ratio Lower Upper

117 100

119 5.8 77.5 116.3#

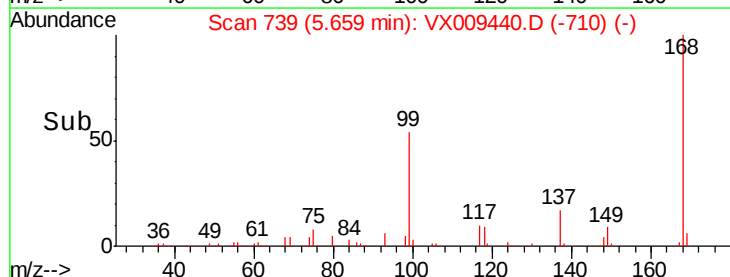
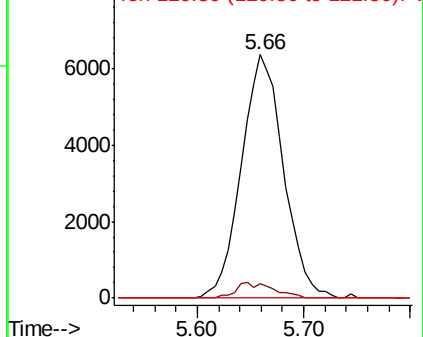
121 0.0 24.7 37.1#

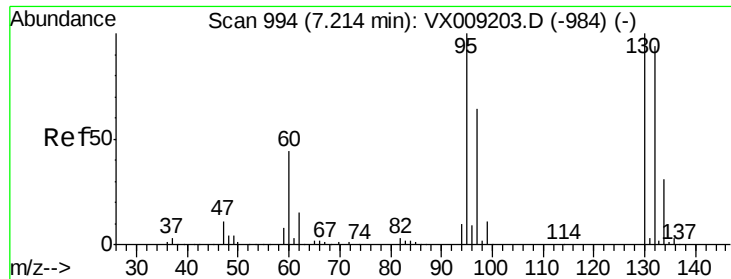


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 1.817 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX009440.D

Acq: 09 May 2019 20:04

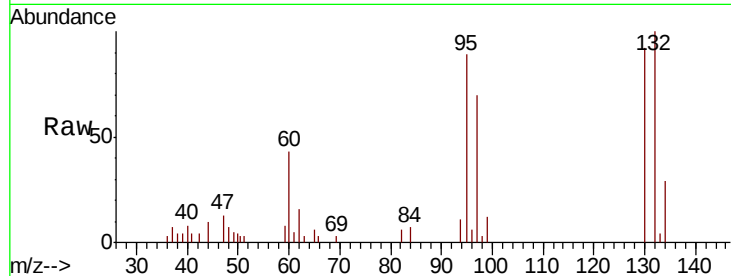
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:130 Resp: 3779

Ion Ratio Lower Upper

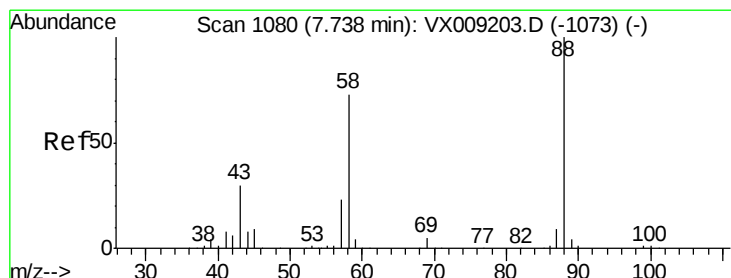
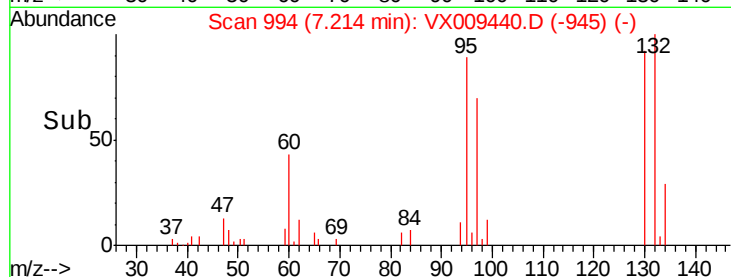
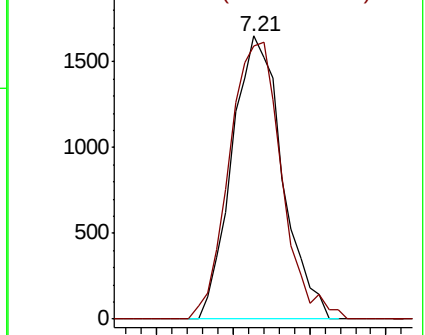
130 100

95 96.5 0.0 199.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.497 ug/l

RT: 7.77 min Scan# 1085

Delta R.T. 0.03 min

Lab File: VX009440.D

Acq: 09 May 2019 20:04

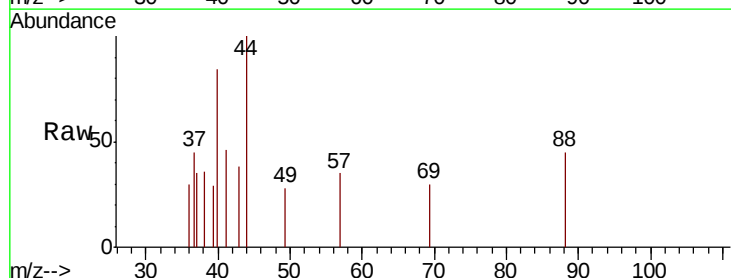
Tgt Ion: 88 Resp: 31

Ion Ratio Lower Upper

88 100

43 0.0 28.6 42.8#

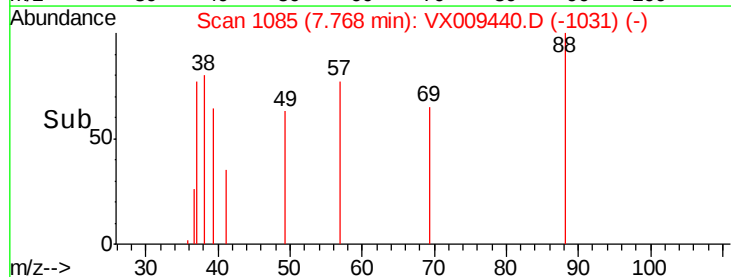
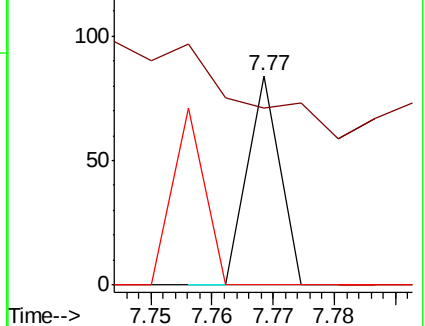
58 0.0 61.7 92.5#

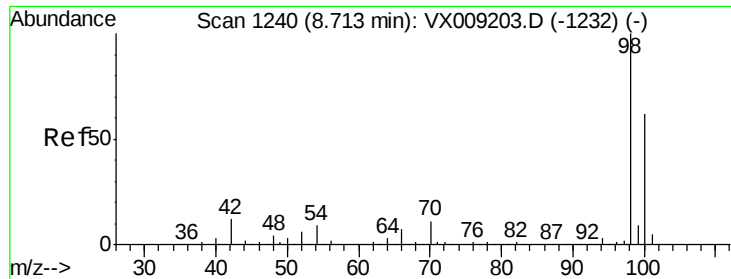


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

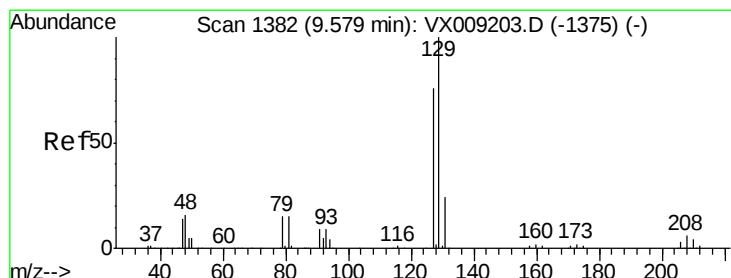
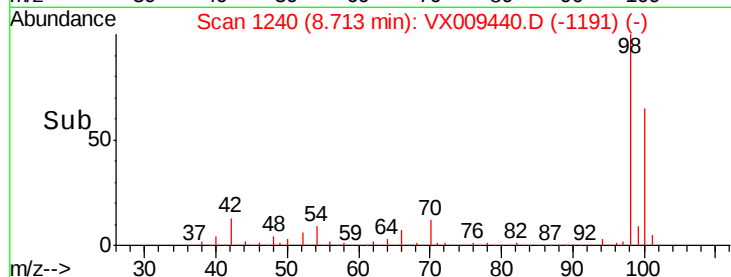
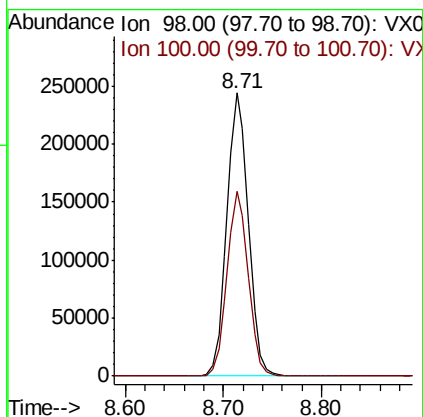
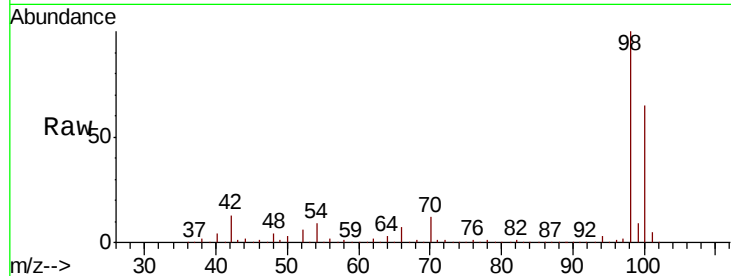




#50
Toluene-d8
Concen: 48.974 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX009440.D
Acq: 09 May 2019 20:04

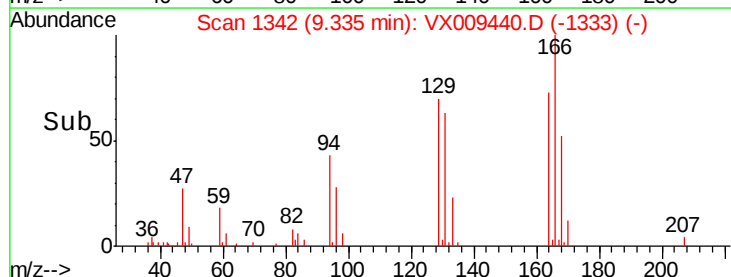
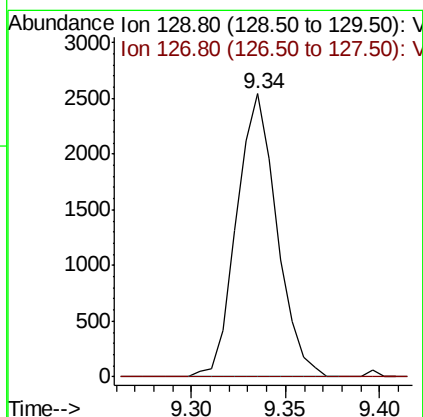
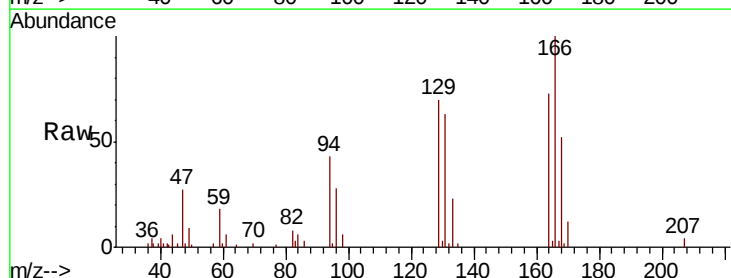
Instrument :
MSVOA_X
ClientSampleId :

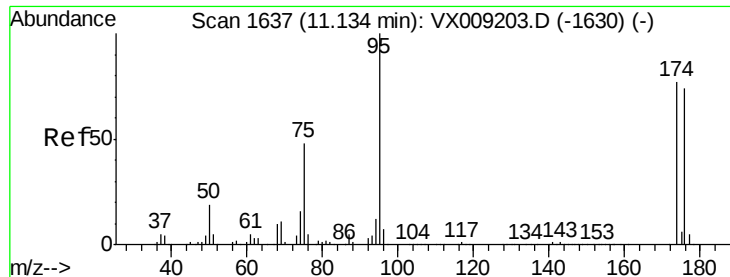
Tot Ion: 98 Resp: 371715
Ion Ratio Lower Upper
98 100
100 64.6 51.2 76.8



#60
Dibromochloromethane
Concen: 1.804 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.24 min
Lab File: VX009440.D
Acq: 09 May 2019 20:04

Tgt Ion: 129 Resp: 3758
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.1#





#62

4-Bromofluorobenzene

Concen: 44.264 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009440.D

Acq: 09 May 2019 20:04

Instrument :

MSVOA_X

ClientSampleId :

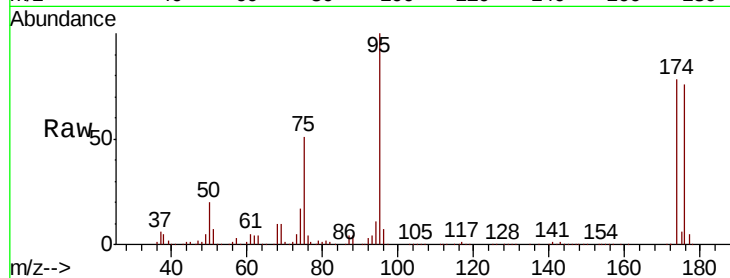
Tot Ion: 95 Resp: 122078

Ion Ratio Lower Upper

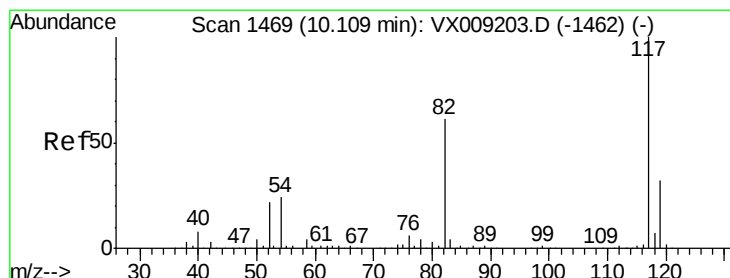
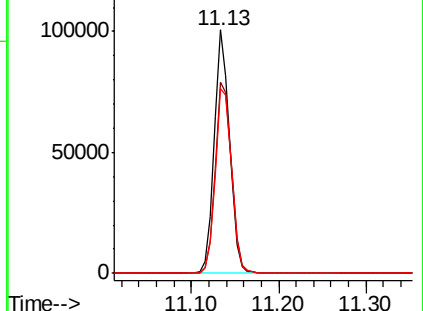
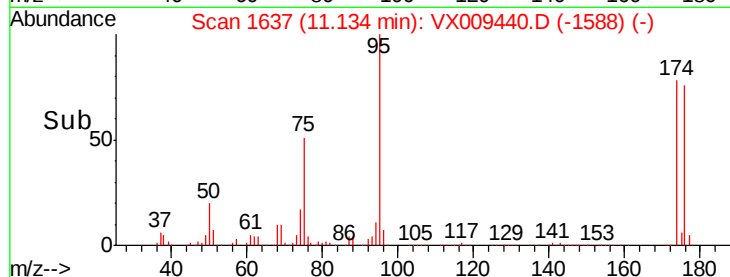
95 100

174 82.5 0.0 161.6

176 80.2 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009440.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX009440.D

Acq: 09 May 2019 20:04

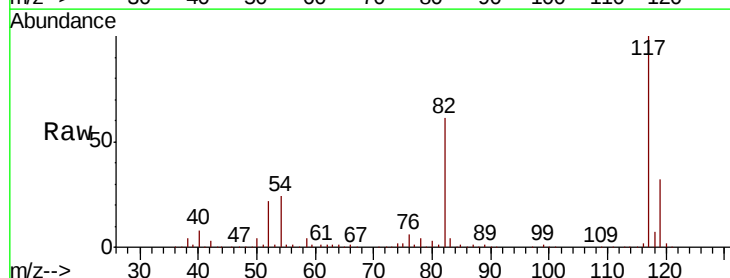
Tgt Ion: 117 Resp: 260470

Ion Ratio Lower Upper

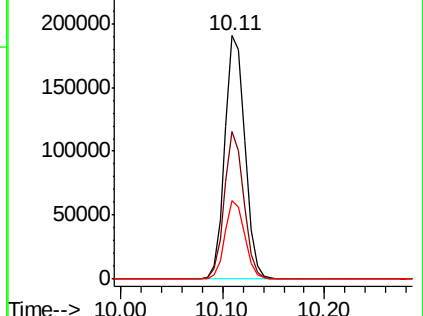
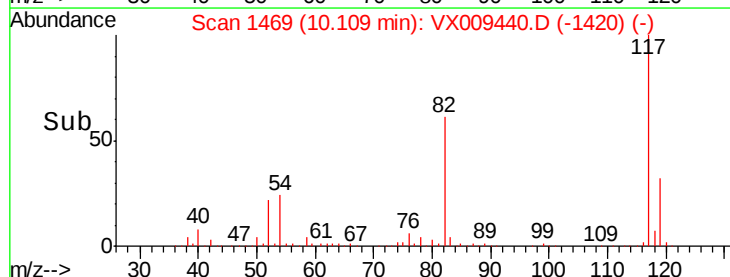
117 100

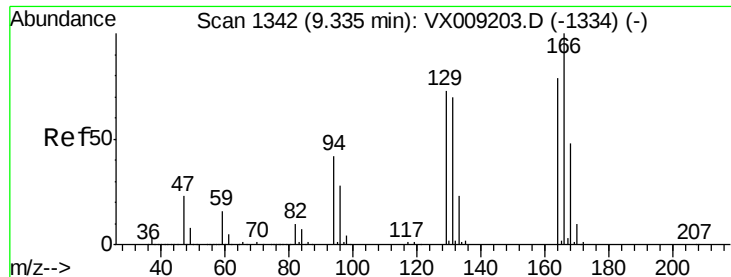
82 60.7 48.8 73.2

119 32.2 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VX009440.D (-1420) (-)

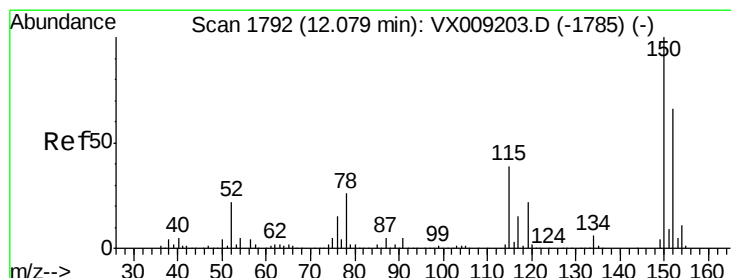
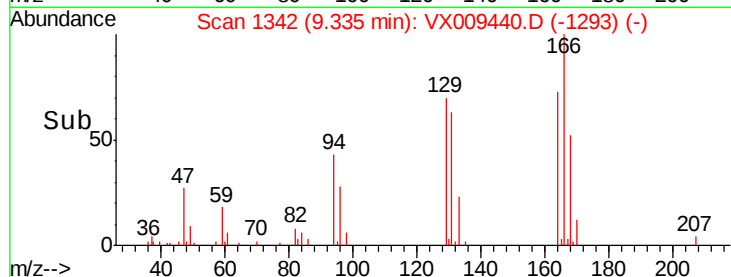
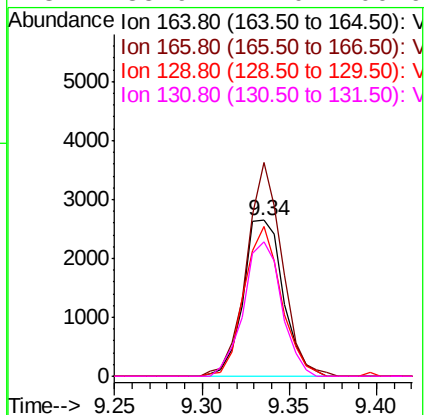
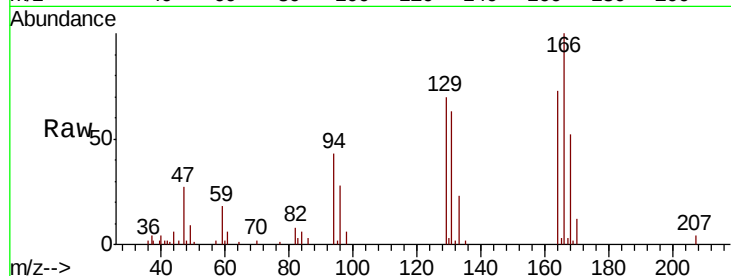




#64
Tetrachloroethene
Concen: 2.360 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX009440.D
Acq: 09 May 2019 20:04

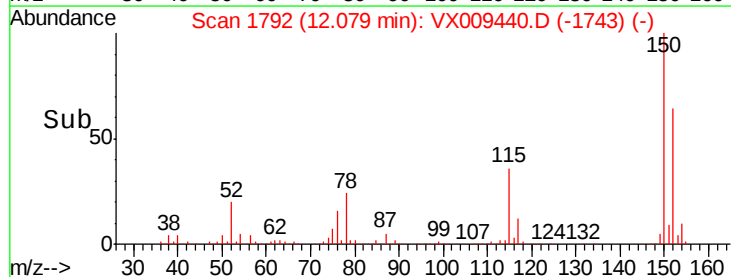
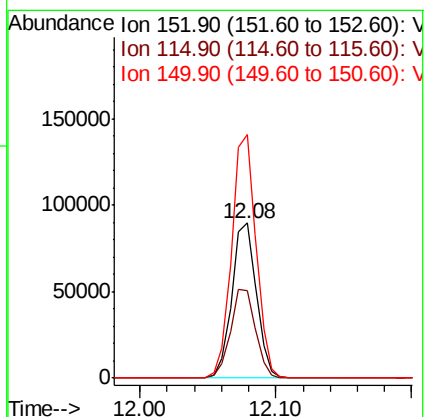
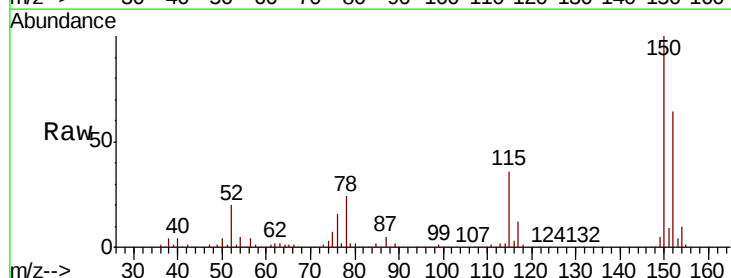
Instrument :
MSVOA_X
ClientSampleId :

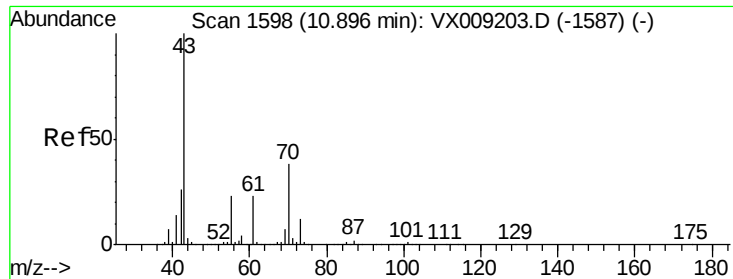
Tot Ion:164 Resp: 4217
Ion Ratio Lower Upper
164 100
166 136.9 101.2 151.8
129 96.0 74.3 111.5
131 85.9 71.0 106.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009440.D
Acq: 09 May 2019 20:04

Tgt Ion:152 Resp: 112086
Ion Ratio Lower Upper
152 100
115 58.7 41.2 123.6
150 156.7 0.0 346.4





#74

N-amvl acetate

Concen: 0.443 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX009440.D

Acq: 09 May 2019 20:04

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 2105

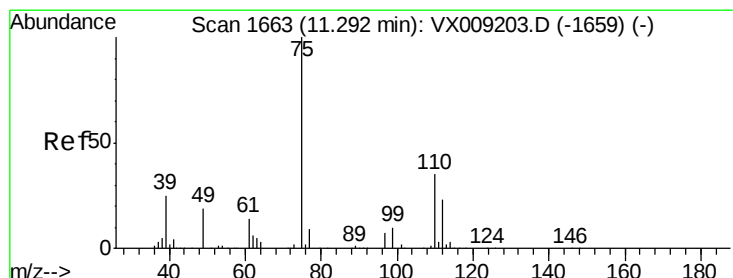
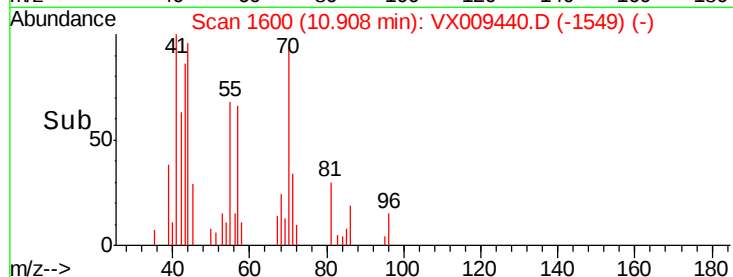
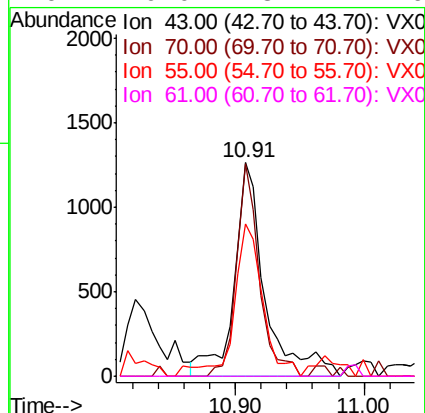
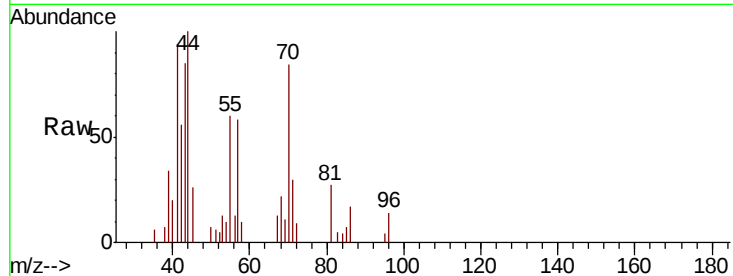
Ion Ratio Lower Upper

43 100

70 74.2 30.0 45.0#

55 62.5 17.9 26.9#

61 0.0 18.4 27.6#



#76

1,2,3-Trichloropropane

Concen: 23.706 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009440.D

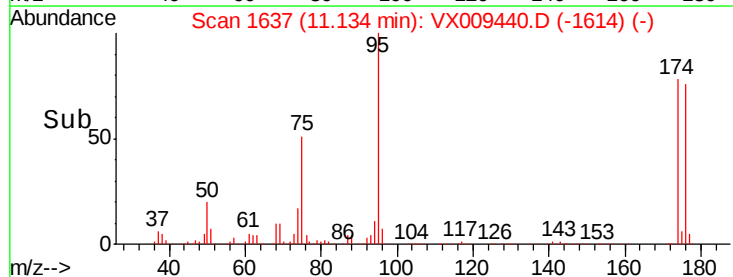
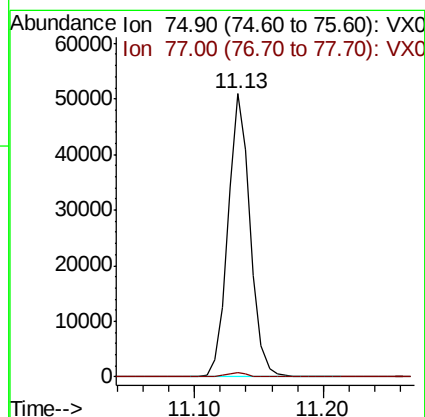
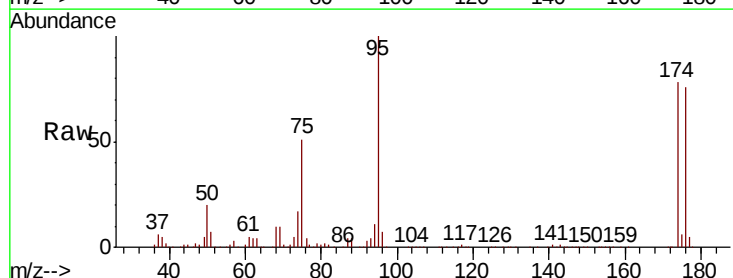
Acq: 09 May 2019 20:04

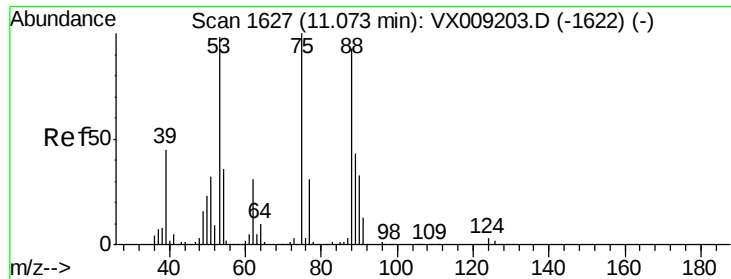
Tgt Ion: 75 Resp: 61636

Ion Ratio Lower Upper

75 100

77 1.4 22.1 66.1#





#81

trans-1,4-Dichloro-2-butene

Concen: 60.656 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009440.D

Acq: 09 May 2019 20:04

Instrument :

MSVOA_X

ClientSampleId :

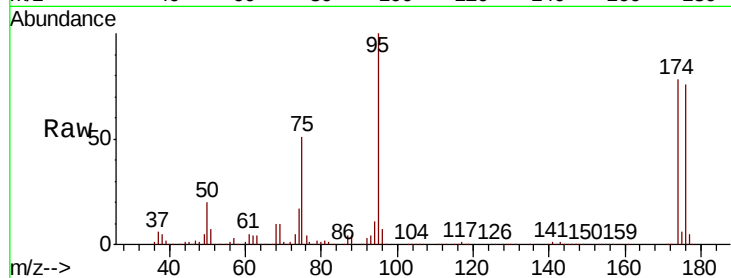
Tot Ion: 75 Resp: 61636

Ion Ratio Lower Upper

75 100

53 0.2 79.0 118.6#

89 0.0 34.7 52.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

