

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX081518\
 Data File : VX004100.D
 Acq On : 16 Aug 2018 04:27
 Operator : JC/MD
 Sample : J4495-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0497-180814

Quant Time: Aug 16 07:19:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 13:27:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	244743	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	381688	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	359779	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	190740	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	185371	53.76	ug/l	0.00
Spiked Amount			Recovery	=	107.52%	
35) Dibromofluoromethane	5.51	113	150198	52.58	ug/l	0.00
Spiked Amount			Recovery	=	105.16%	
50) Toluene-d8	8.72	98	547262	47.25	ug/l	0.00
Spiked Amount			Recovery	=	94.50%	
62) 4-Bromofluorobenzene	11.14	95	185328	44.12	ug/l	0.00
Spiked Amount			Recovery	=	88.24%	

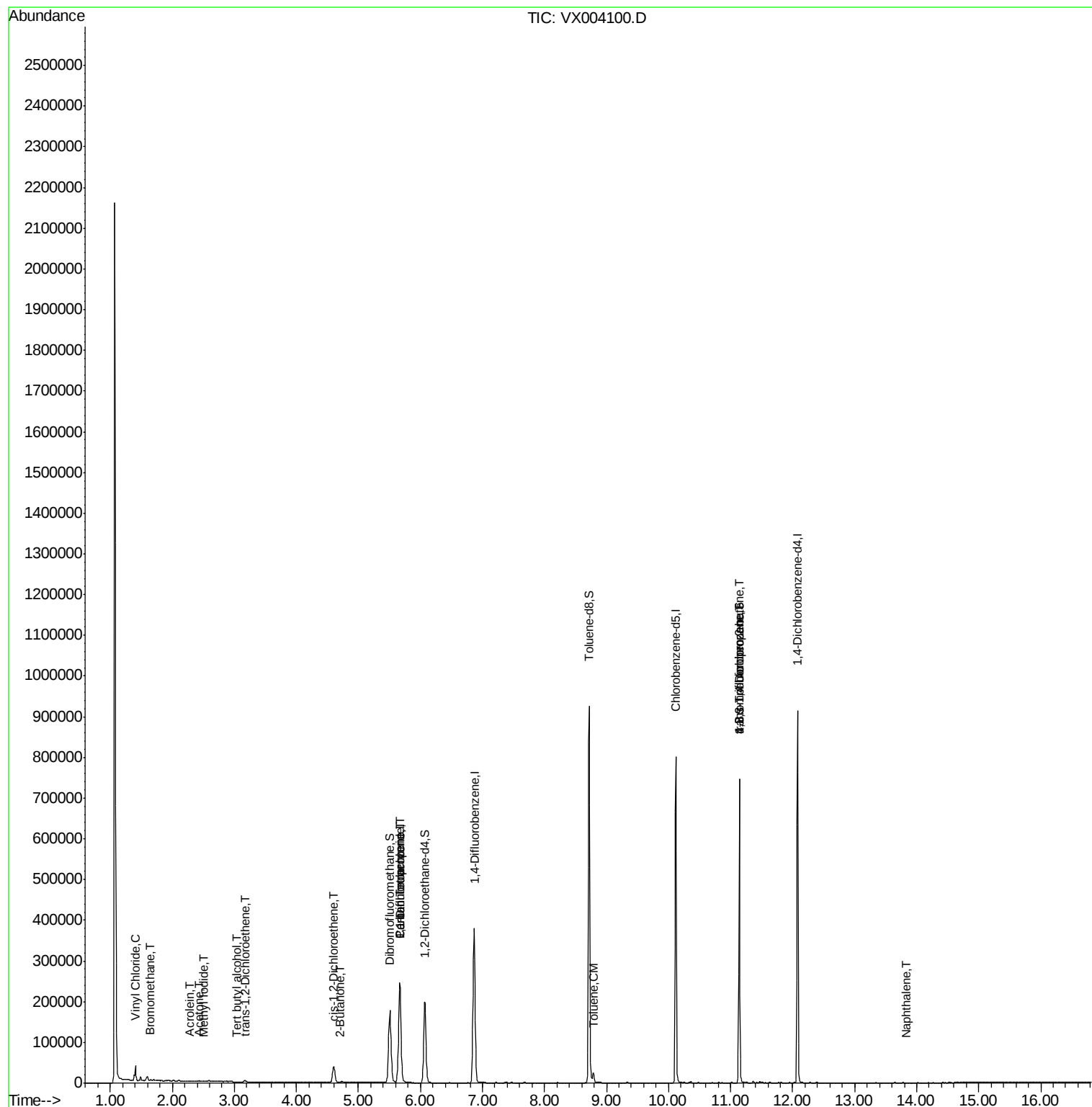
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	23064	7.29	ug/l	99
5) Bromomethane	1.65	94	1039	0.47	ug/l	# 79
6) Chloroethane	1.60	64	2788	Below Cal	#	60
10) Methyl Iodide	2.51	142	624	5.20	ug/l	# 89
11) Tert butyl alcohol	3.04	59	361	0.52	ug/l	# 73
13) Acrolein	2.29	56	111	11.17	ug/l	# 1
16) Acetone	2.44	43	1855	1.03	ug/l	94
20) Methylene Chloride	2.87	84	121	Below Cal	#	74
21) trans-1,2-Dichloroethene	3.17	96	1393	0.48	ug/l	92
25) 2-Butanone	4.70	43	1314	0.45	ug/l	# 48
27) cis-1,2-Dichloroethene	4.60	96	26240	7.98	ug/l	91
36) 1,1-Dichloropropene	5.67	75	17079	3.93	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	21621	5.12	ug/l	# 14
52) Toluene	8.79	92	7771	0.94	ug/l	99
76) 1,2,3-Trichloropropane	11.14	75	89198	23.32	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	11.14	75	89198	72.18	ug/l	# 9
95) Naphthalene	13.83	128	394	1.17	ug/l	# 75

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX004100.D

Acq: 16 Aug 2018 04:27

Instrument :

MSVOA_X

ClientSampleId :

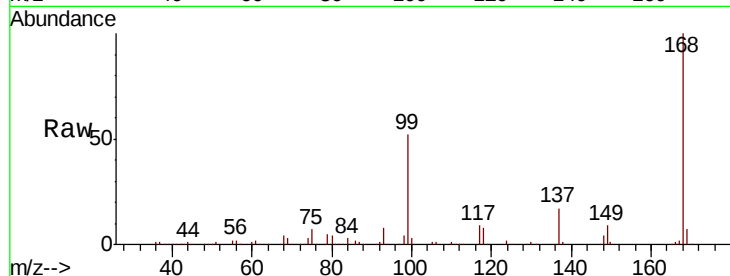
DUP-0497-180814

Tot Ion:168 Resp: 244743

Ion Ratio Lower Upper

168 100

99 52.3 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

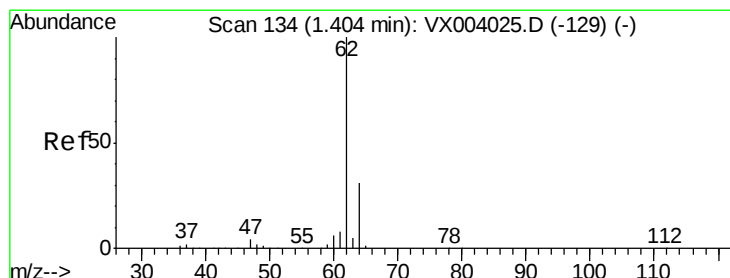
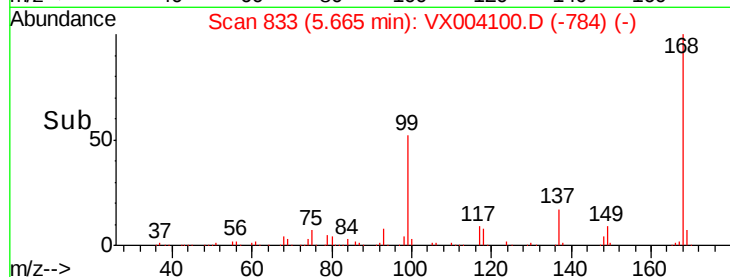
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 7.29 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX004100.D

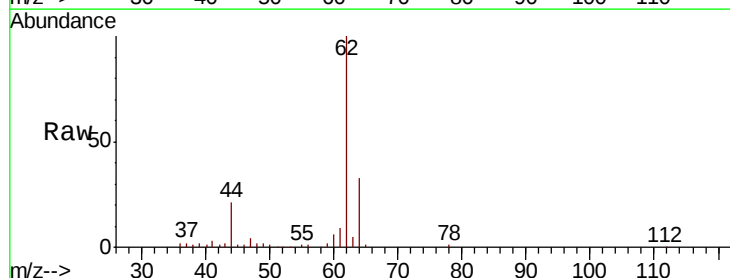
Acq: 16 Aug 2018 04:27

Tgt Ion: 62 Resp: 23064

Ion Ratio Lower Upper

62 100

64 33.1 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

25000

20000

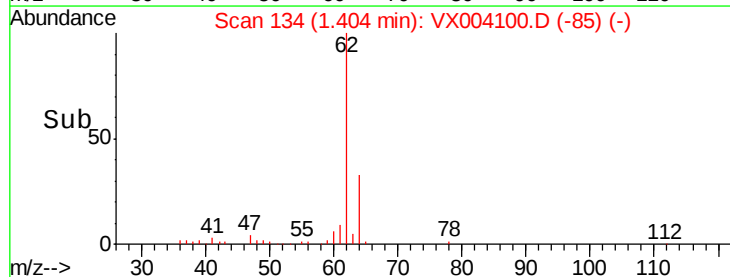
15000

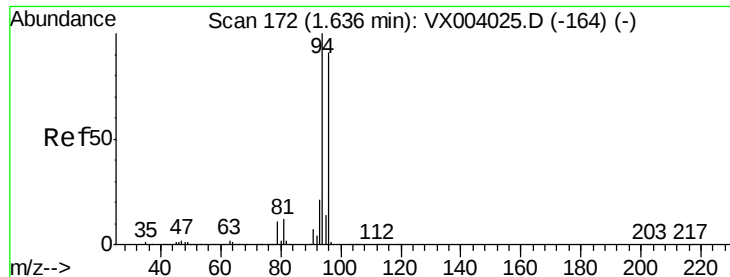
10000

5000

0

Time--> 1.35 1.40 1.45 1.50





#5

Bromomethane

Concen: 0.47 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX004100.D

Acq: 16 Aug 2018 04:27

Instrument :

MSVOA_X

ClientSampleId :

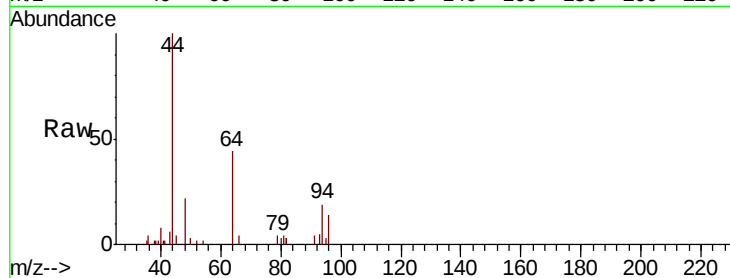
DUP-0497-180814

Tot Ion: 94 Resp: 1039

Ion Ratio Lower Upper

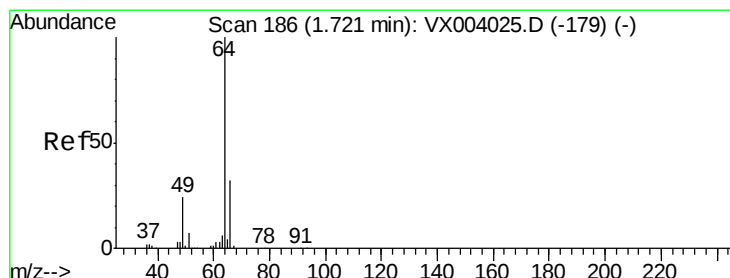
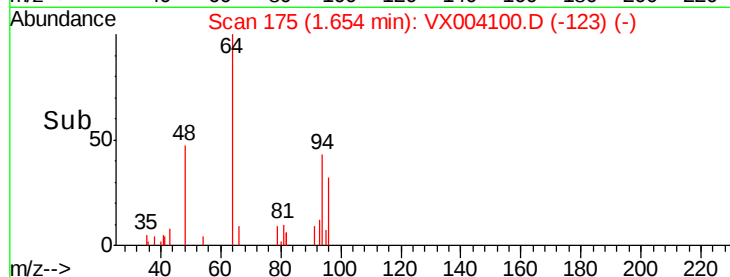
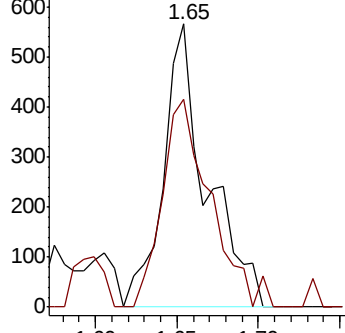
94 100

96 73.5 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.60 min Scan# 166

Delta R.T. -0.12 min

Lab File: VX004100.D

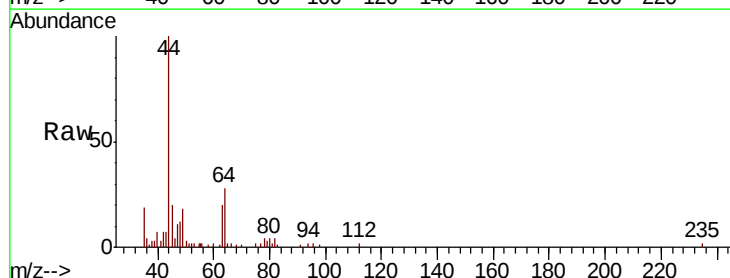
Acq: 16 Aug 2018 04:27

Tgt Ion: 64 Resp: 2788

Ion Ratio Lower Upper

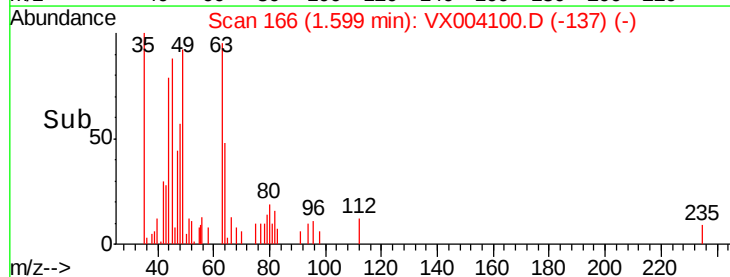
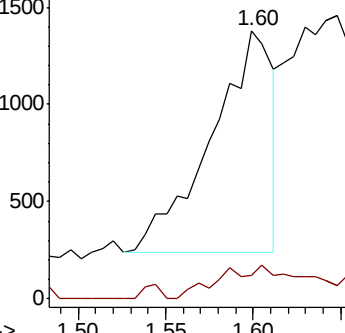
64 100

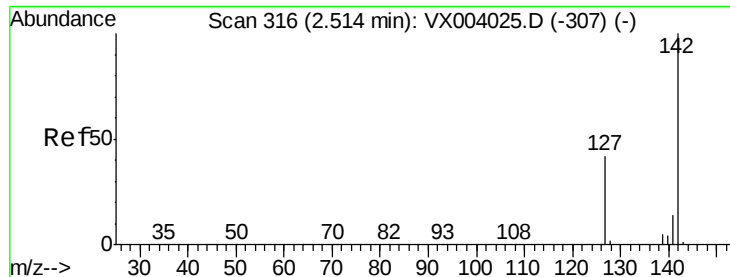
66 10.4 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

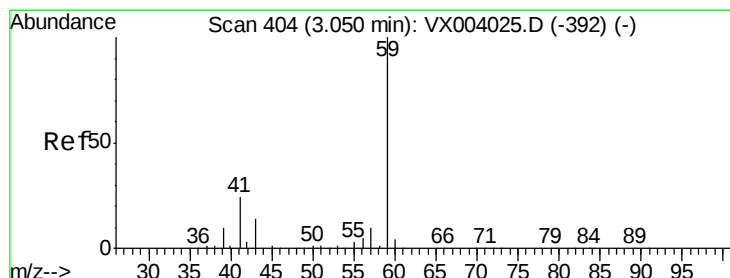
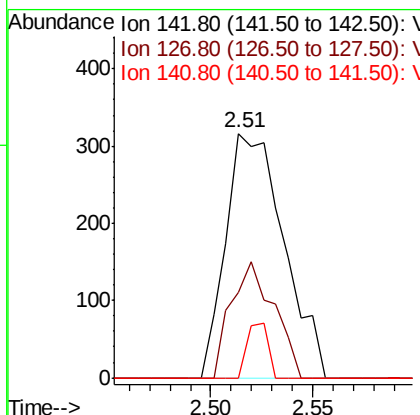
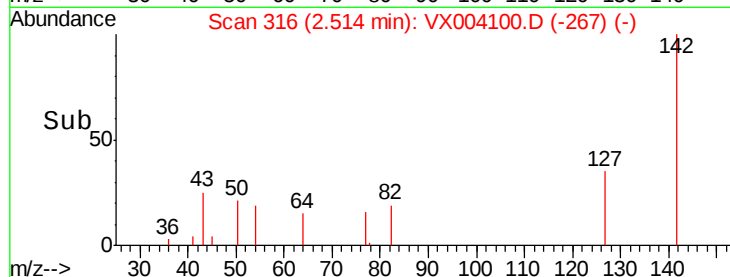
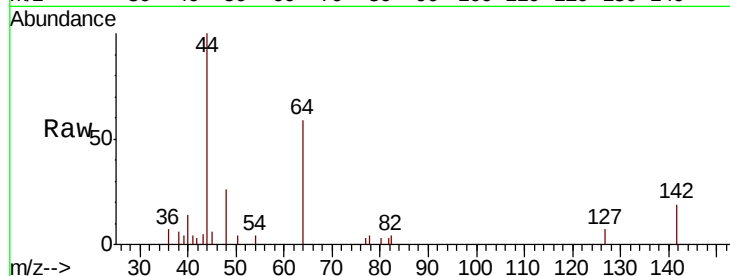




#10
Methyl Iodide
Concen: 5.20 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.00 min
Lab File: VX004100.D
Acq: 16 Aug 2018 04:27

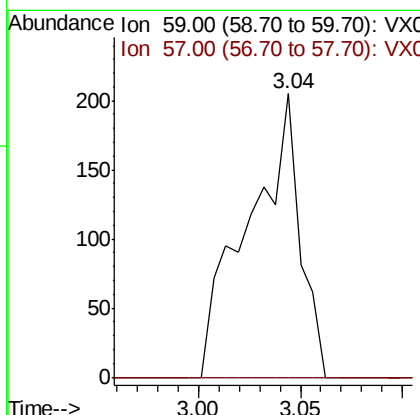
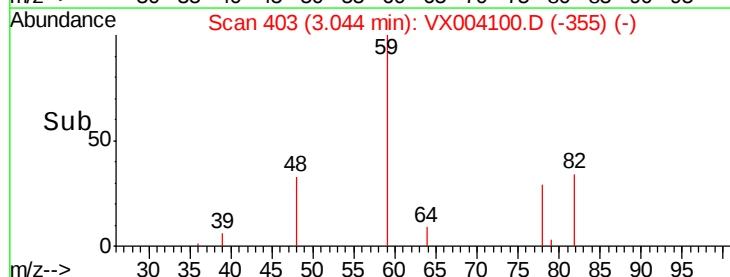
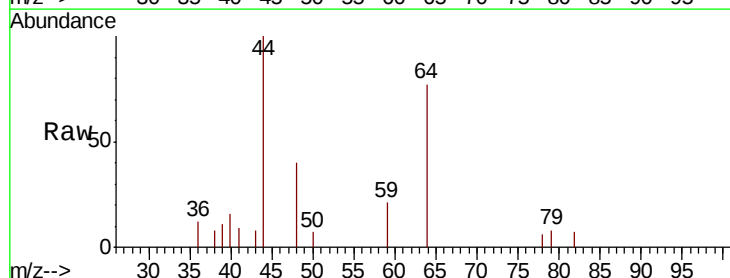
Instrument :
MSVOA_X
ClientSampleId :
DUP-0497-180814

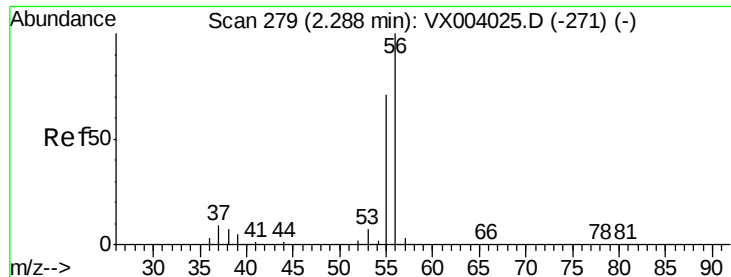
Tot Ion:142 Resp: 624
Ion Ratio Lower Upper
142 100
127 34.9 33.1 49.7
141 8.2 11.1 16.7#



#11
Tert butyl alcohol
Concen: 0.52 ug/l
RT: 3.04 min Scan# 403
Delta R.T. -0.01 min
Lab File: VX004100.D
Acq: 16 Aug 2018 04:27

Tgt Ion: 59 Resp: 361
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#





#13

Acrolein

Concen: 11.17 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX004100.D

Acq: 16 Aug 2018 04:27

Instrument :

MSVOA_X

ClientSampleId :

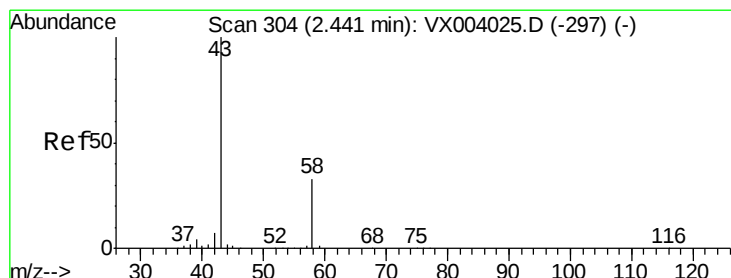
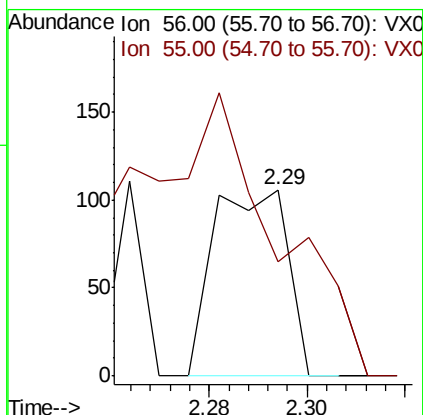
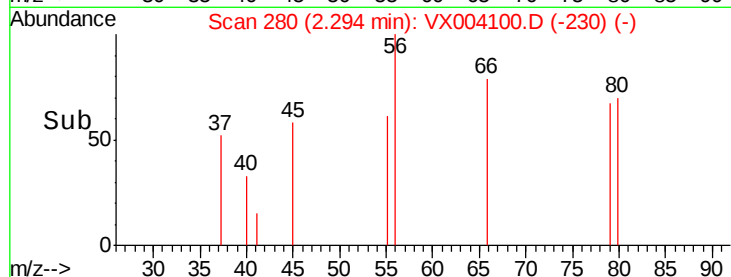
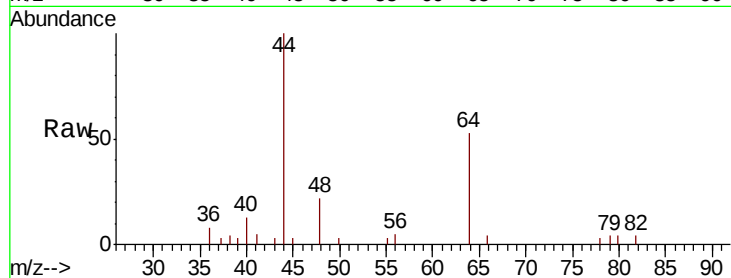
DUP-0497-180814

Tot Ion: 56 Resp: 111

Ion Ratio Lower Upper

56 100

55 293.7 56.1 84.1#



#16

Acetone

Concen: 1.03 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.00 min

Lab File: VX004100.D

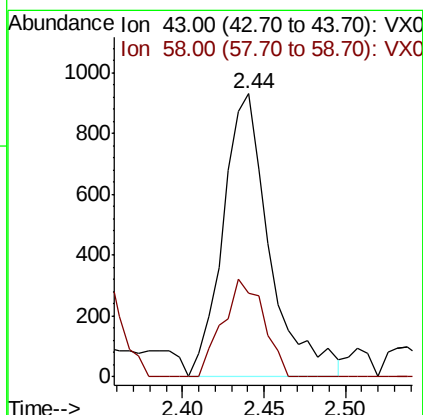
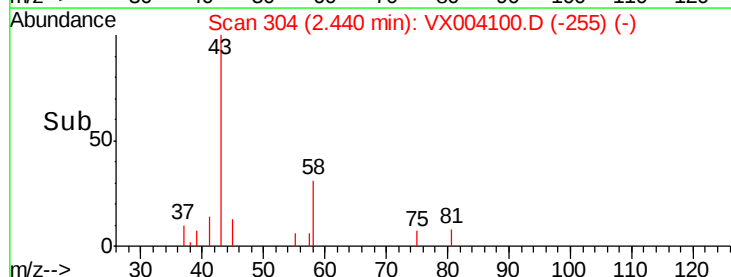
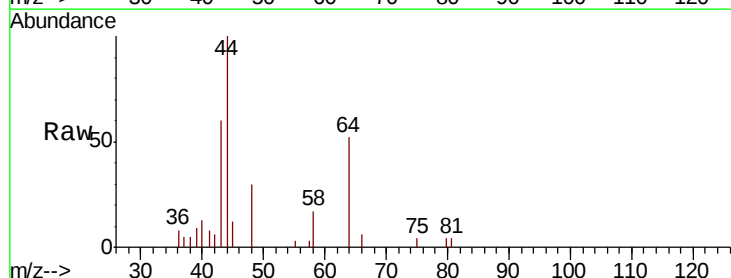
Acq: 16 Aug 2018 04:27

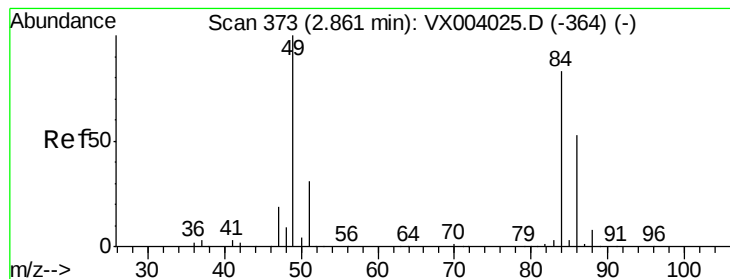
Tgt Ion: 43 Resp: 1855

Ion Ratio Lower Upper

43 100

58 29.4 26.4 39.6



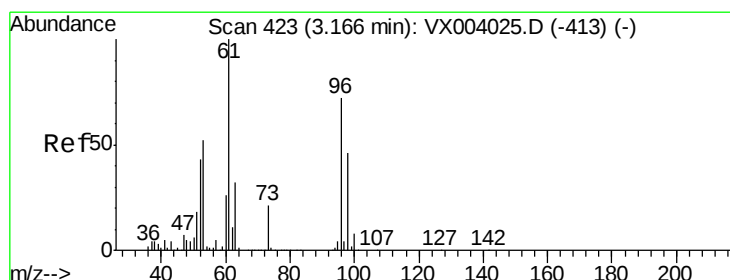
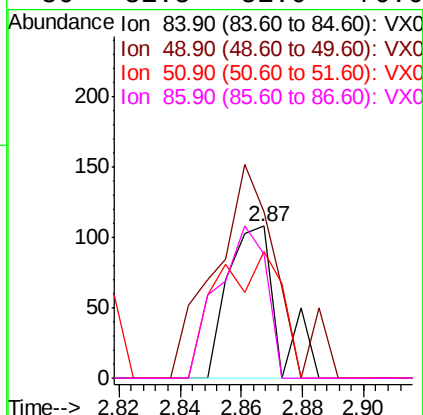
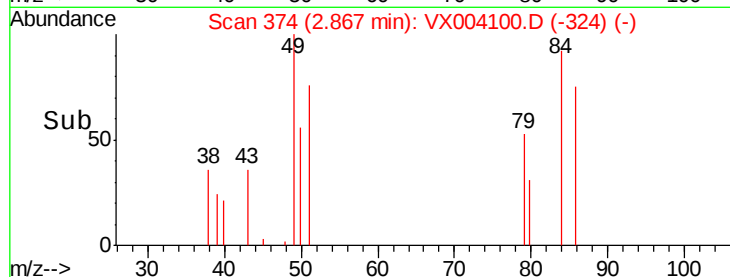
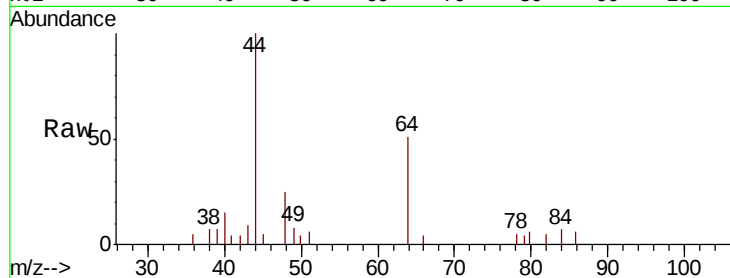


#20

Methvlene Chloride
 Concen: Below Cal
 RT: 2.87 min Scan# 374
 Delta R.T. 0.01 min
 Lab File: VX004100.D
 Acq: 16 Aug 2018 04:27

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0497-180814

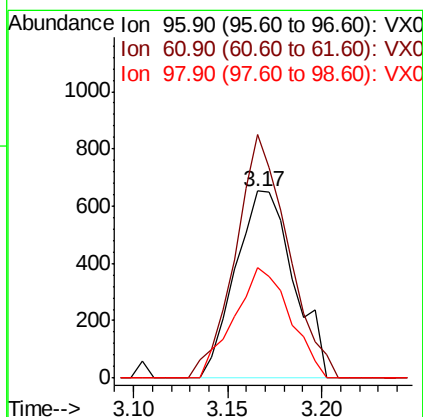
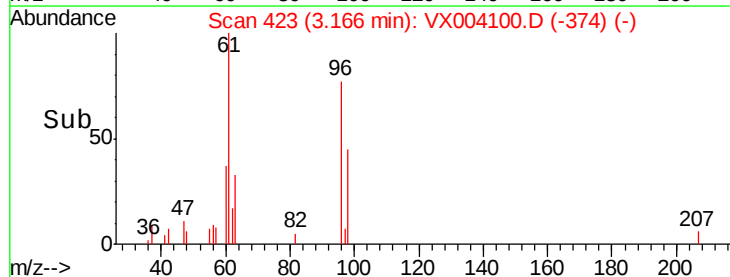
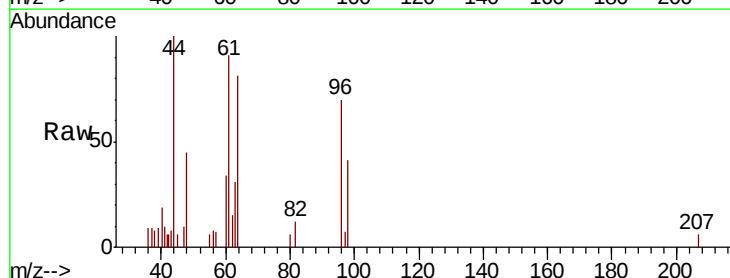
Tot Ion: 84 Resp: 121
 Ion Ratio Lower Upper
 84 100
 49 109.3 98.9 148.3
 51 83.3 29.9 44.9#
 86 81.5 51.0 76.6#

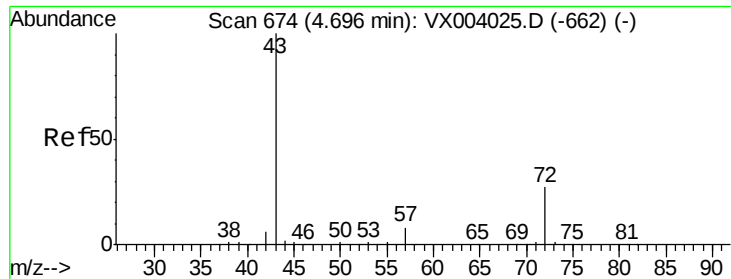


#21

trans-1,2-Dichloroethene
 Concen: 0.48 ug/l
 RT: 3.17 min Scan# 423
 Delta R.T. -0.00 min
 Lab File: VX004100.D
 Acq: 16 Aug 2018 04:27

Tgt Ion: 96 Resp: 1393
 Ion Ratio Lower Upper
 96 100
 61 130.2 111.8 167.6
 98 58.8 51.8 77.6





#25

2-Butanone

Concen: 0.45 ug/l

RT: 4.70 min Scan# 675

Delta R.T. 0.01 min

Lab File: VX004100.D

Acq: 16 Aug 2018 04:27

Instrument :

MSVOA_X

ClientSampleId :

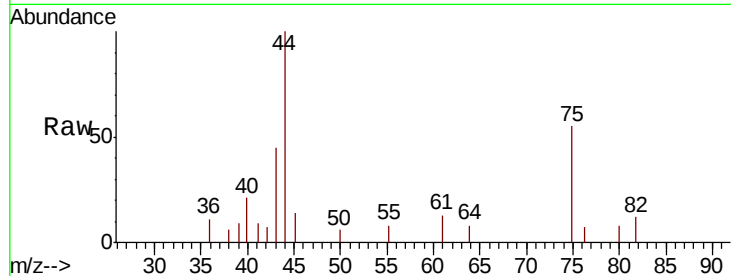
DUP-0497-180814

Tot Ion: 43 Resp: 1314

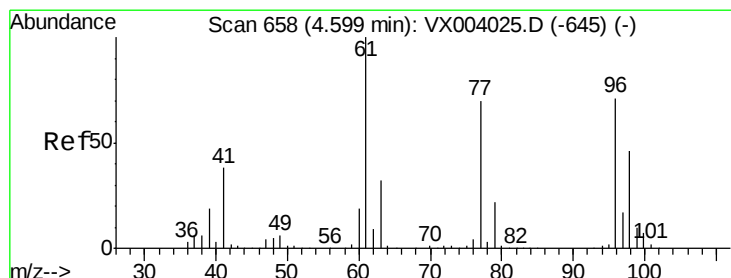
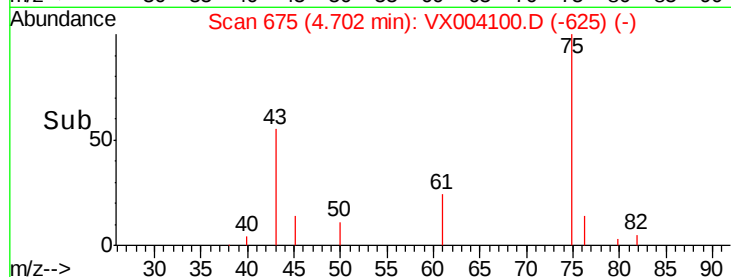
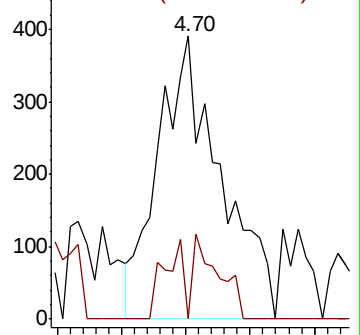
Ion Ratio Lower Upper

43 100

72 0.0 21.4 32.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 7.98 ug/l

RT: 4.60 min Scan# 658

Delta R.T. -0.00 min

Lab File: VX004100.D

Acq: 16 Aug 2018 04:27

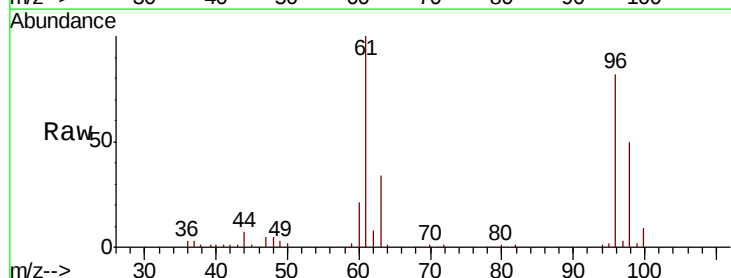
Tgt Ion: 96 Resp: 26240

Ion Ratio Lower Upper

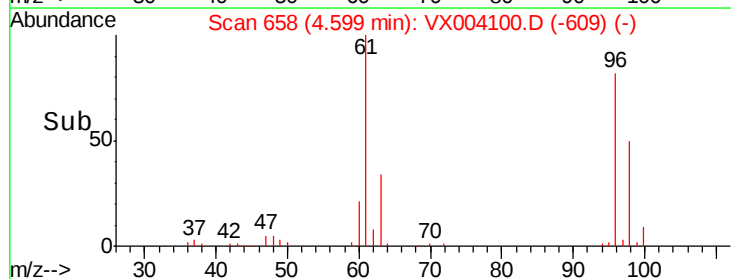
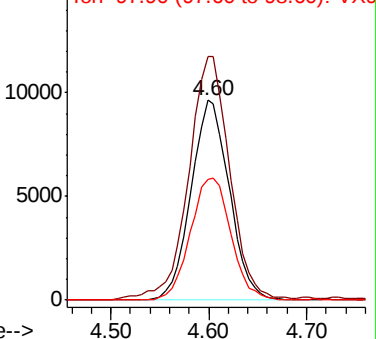
96 100

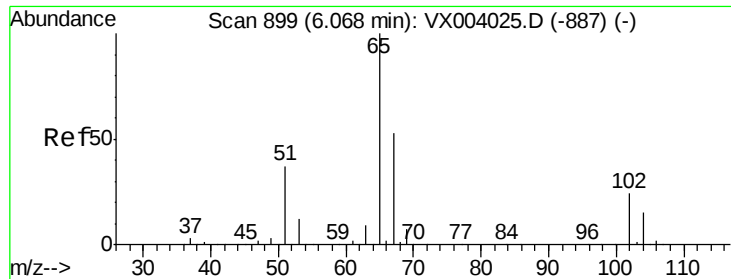
61 131.5 0.0 293.0

98 64.5 0.0 131.8



Abundance Ion 95.90 (95.60 to 96.60): VX0

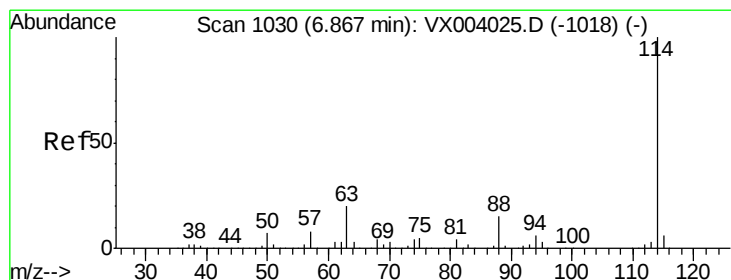
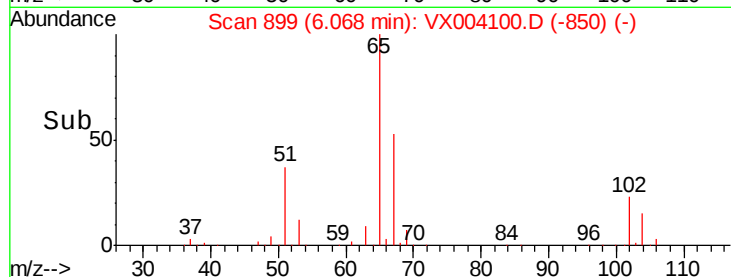
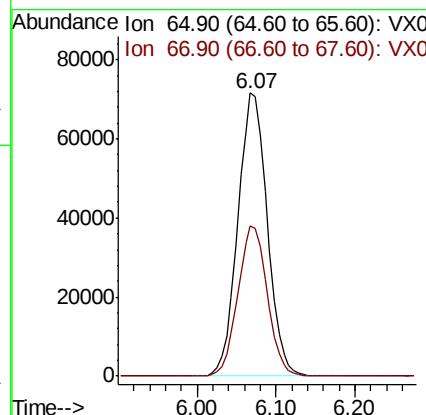
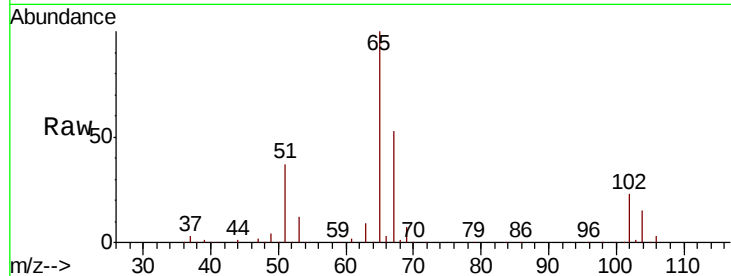




#33
 1,2-Dichloroethane-d4
 Concen: 53.76 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. -0.00 min
 Lab File: VX004100.D
 Acq: 16 Aug 2018 04:27

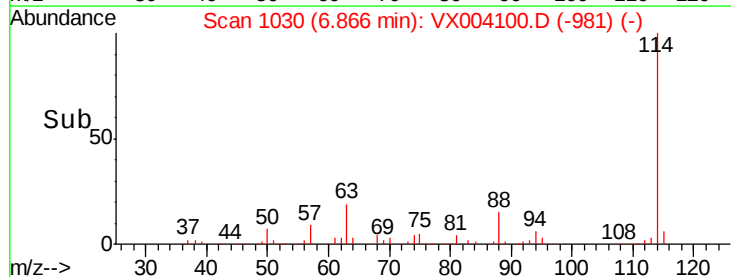
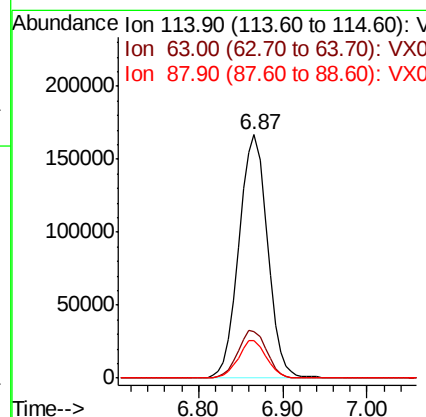
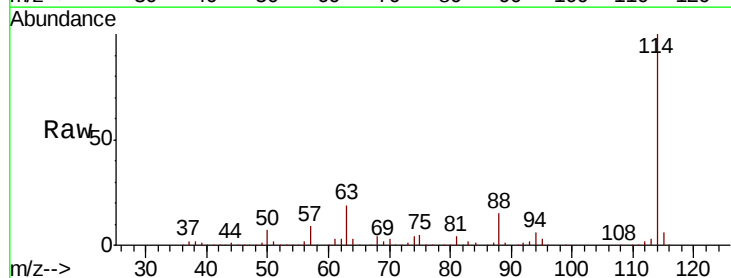
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 DUP-0497-180814

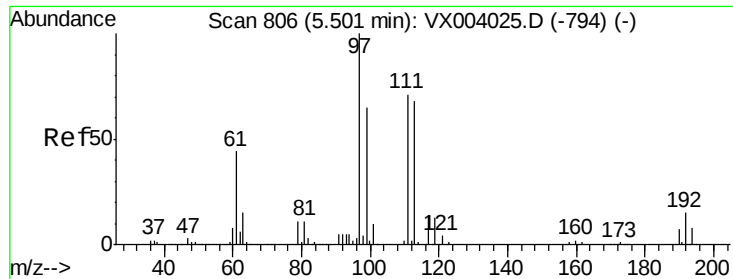
Tot Ion: 65 Resp: 185371
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX004100.D
 Acq: 16 Aug 2018 04:27

Tgt Ion: 114 Resp: 381688
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 39.0
 88 15.4 0.0 32.0

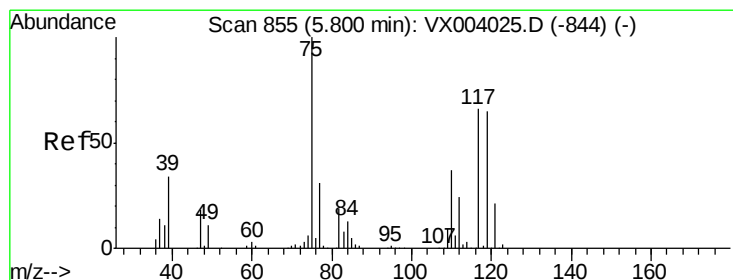
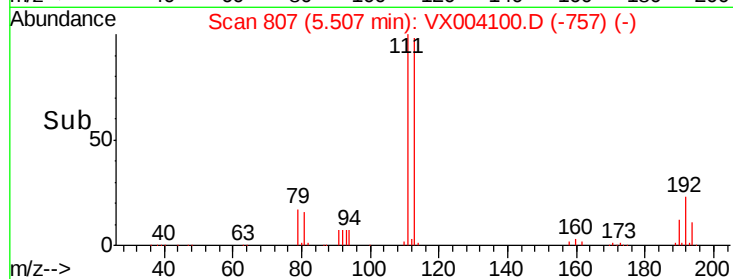
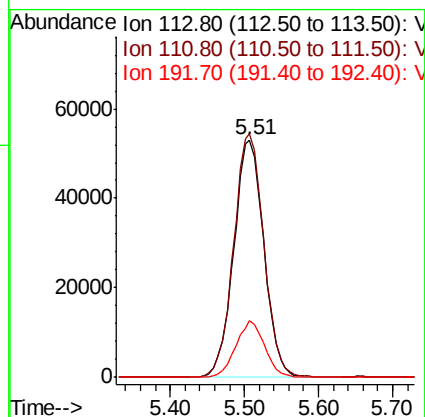
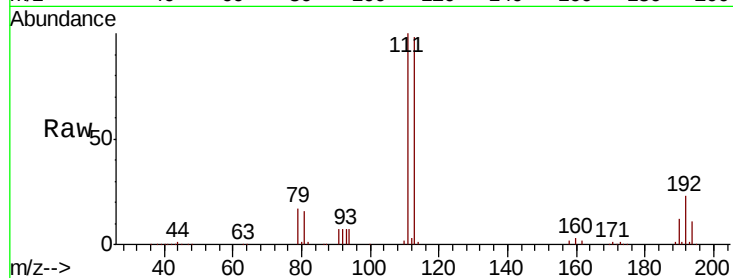




#35
 Dibromofluoromethane
 Concen: 52.58 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX004100.D
 Acq: 16 Aug 2018 04:27

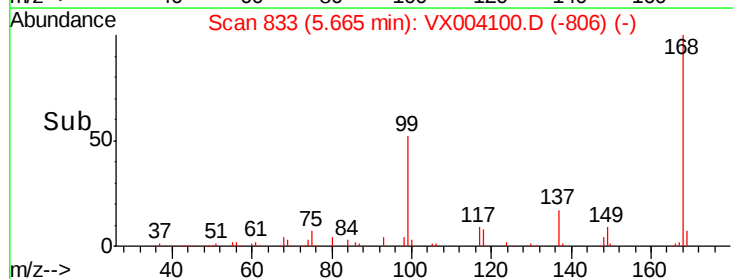
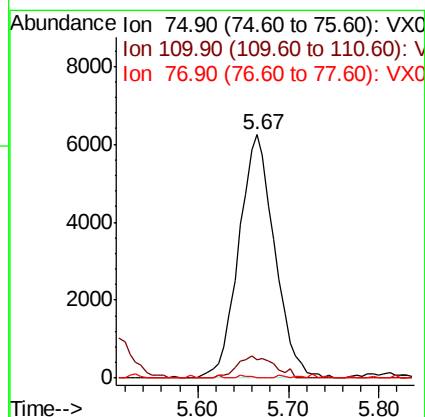
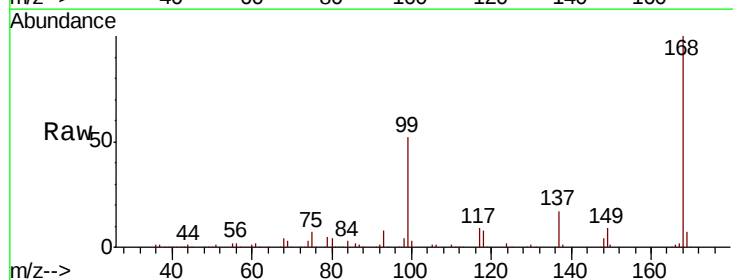
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0497-180814

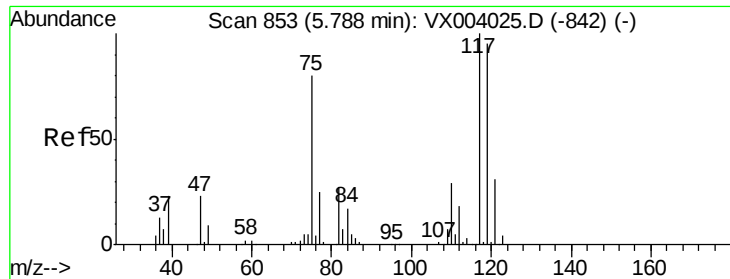
Tot Ion:113 Resp: 150198
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.0 123.0
 192 22.9 19.0 28.4



#36
 1,1-Dichloropropene
 Concen: 3.93 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX004100.D
 Acq: 16 Aug 2018 04:27

Tgt Ion: 75 Resp: 17079
 Ion Ratio Lower Upper
 75 100
 110 9.5 18.2 54.6#
 77 0.4 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.12 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX004100.D

Acq: 16 Aug 2018 04:27

Instrument :

MSVOA_X

ClientSampleId :

DUP-0497-180814

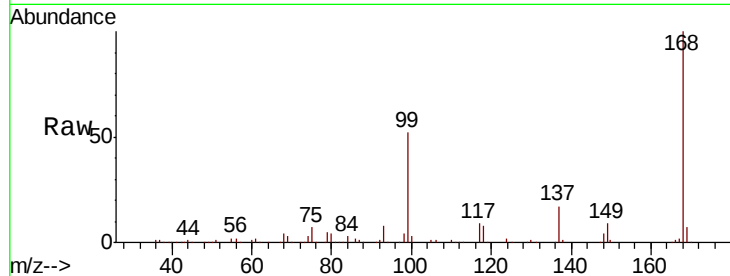
Tot Ion:117 Resp: 21621

Ion Ratio Lower Upper

117 100

119 4.3 79.5 119.3#

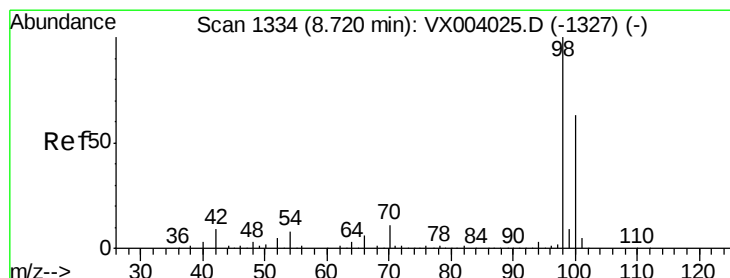
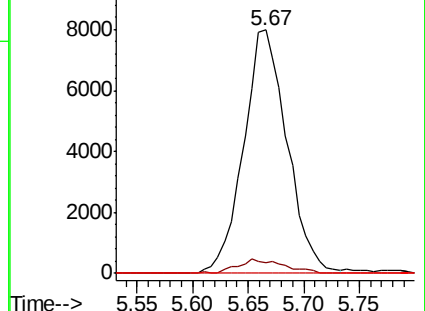
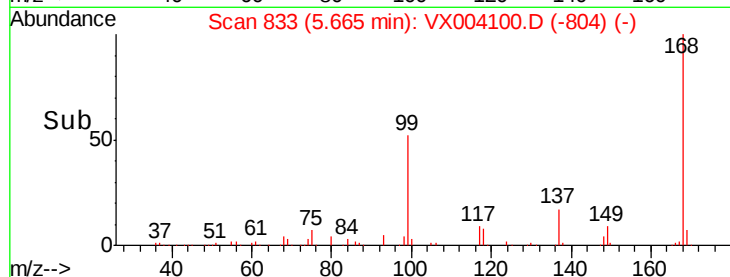
121 0.0 25.0 37.4#



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



#50

Toluene-d8

Concen: 47.25 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX004100.D

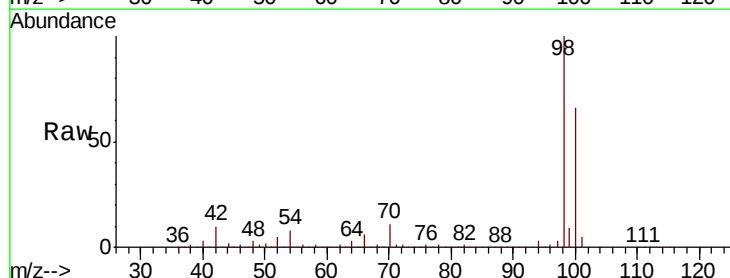
Acq: 16 Aug 2018 04:27

Tgt Ion: 98 Resp: 547262

Ion Ratio Lower Upper

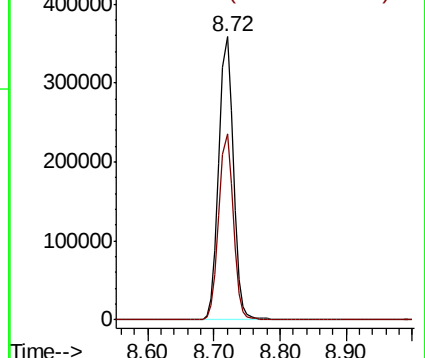
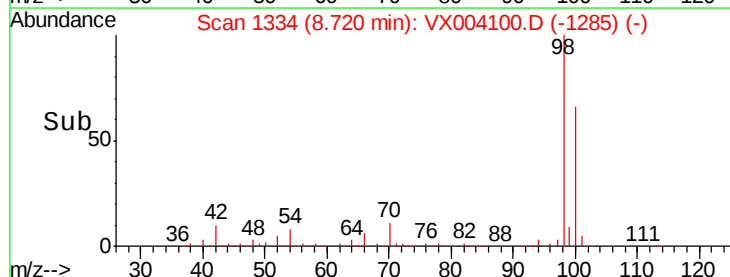
98 100

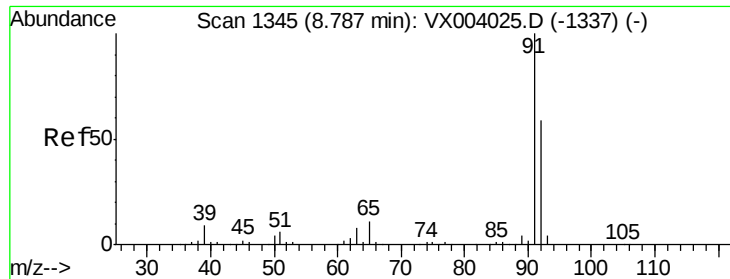
100 65.5 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 0.94 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. -0.00 min

Lab File: VX004100.D

Acq: 16 Aug 2018 04:27

Instrument :

MSVOA_X

ClientSampleId :

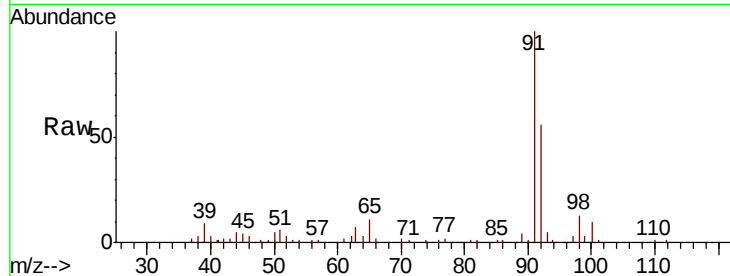
DUP-0497-180814

Tot Ion: 92 Resp: 7771

Ion Ratio Lower Upper

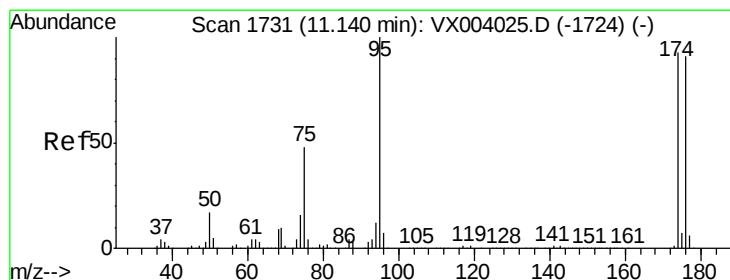
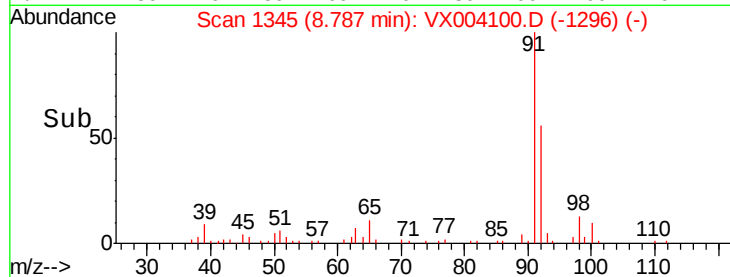
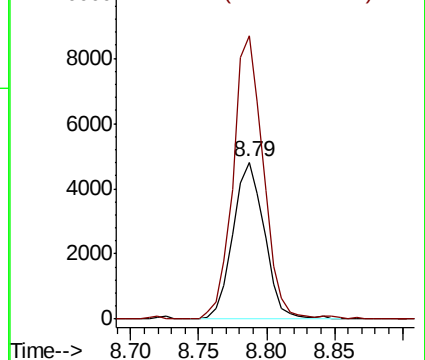
92 100

91 172.0 136.1 204.1



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 44.12 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004100.D

Acq: 16 Aug 2018 04:27

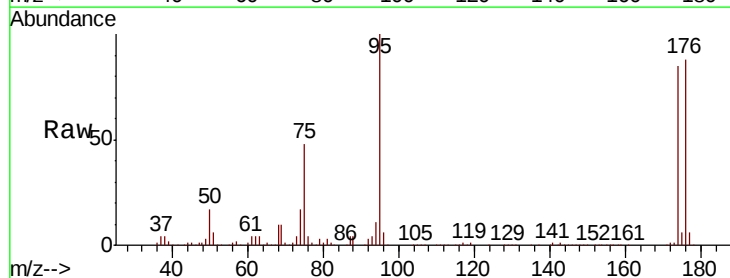
Tgt Ion: 95 Resp: 185328

Ion Ratio Lower Upper

95 100

174 90.2 0.0 182.8

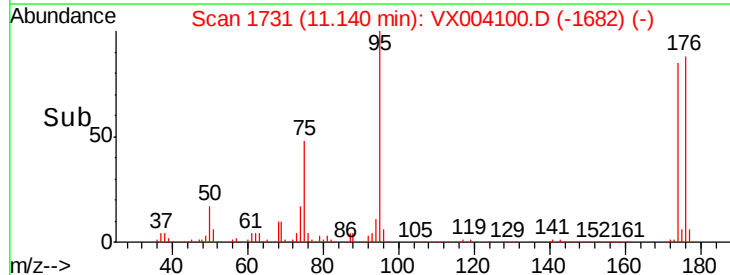
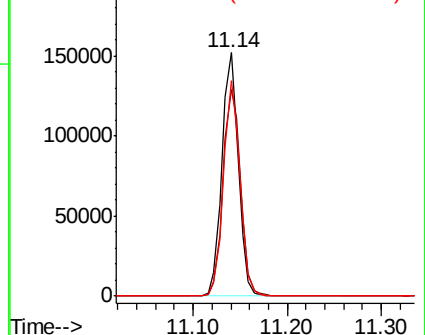
176 88.2 0.0 179.0

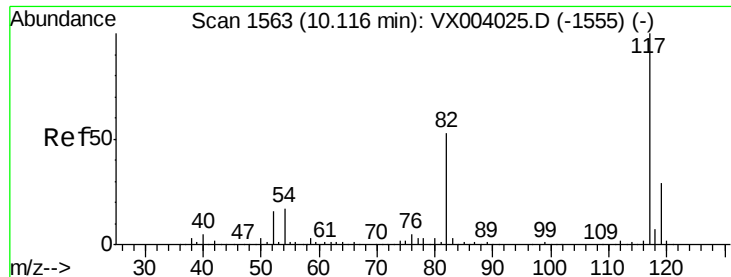


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX004100.D

Acq: 16 Aug 2018 04:27

Instrument :

MSVOA_X

ClientSampleId :

DUP-0497-180814

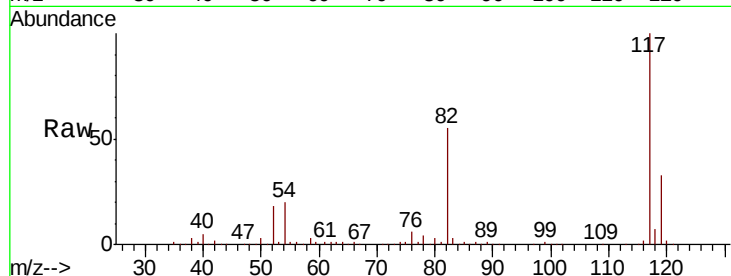
Tot Ion:117 Resp: 359779

Ion Ratio Lower Upper

117 100

82 54.7 45.4 68.0

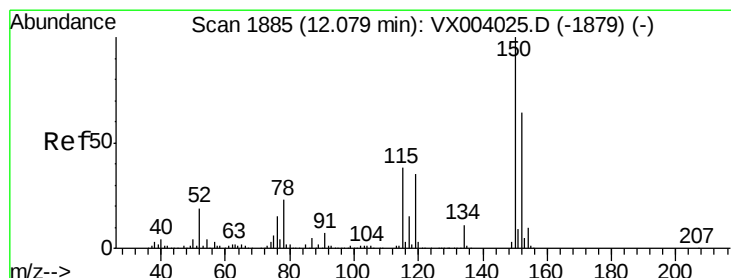
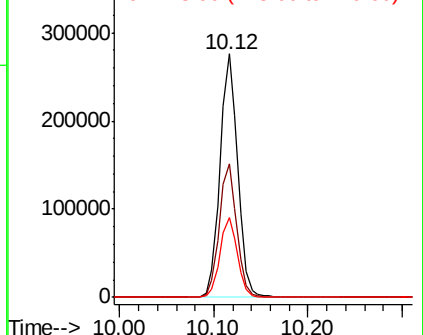
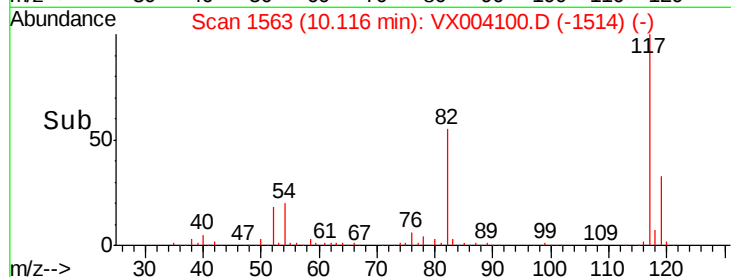
119 32.6 26.6 40.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004100.D

Acq: 16 Aug 2018 04:27

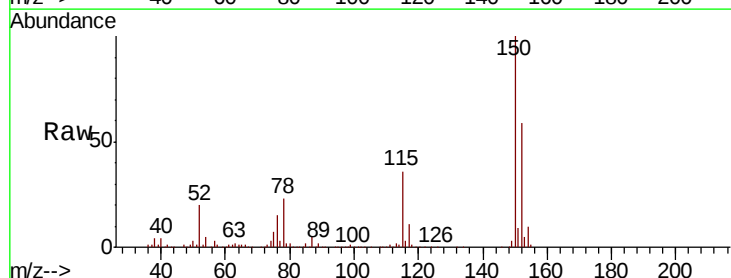
Tgt Ion:152 Resp: 190740

Ion Ratio Lower Upper

152 100

115 56.9 39.1 117.3

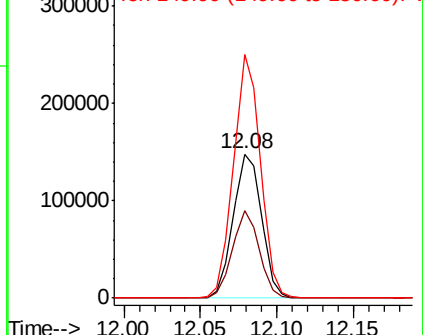
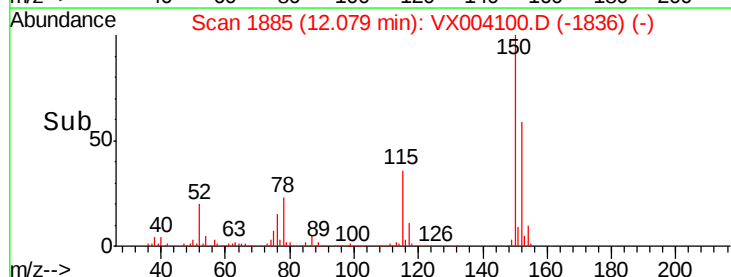
150 160.6 0.0 349.2

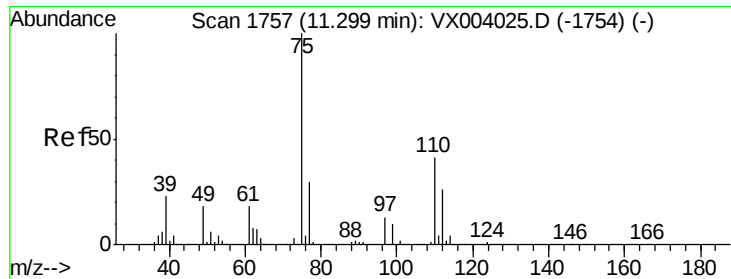


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.32 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004100.D

Acq: 16 Aug 2018 04:27

Instrument :

MSVOA_X

ClientSampleId :

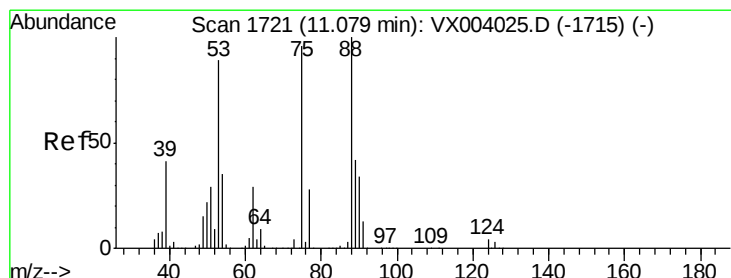
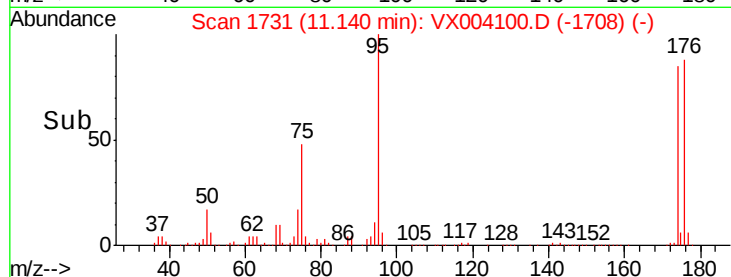
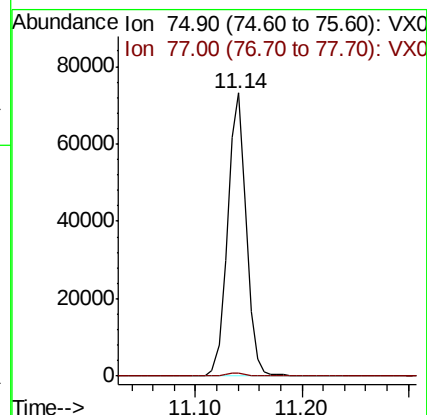
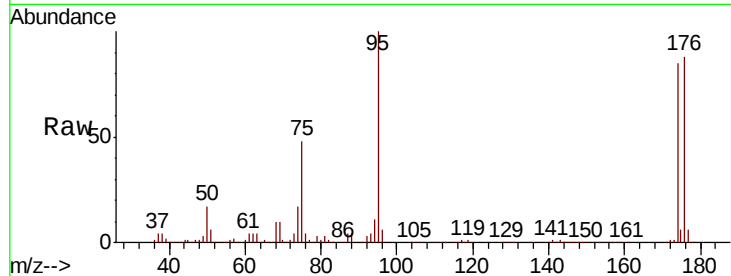
DUP-0497-180814

Tot Ion: 75 Resp: 89198

Ion Ratio Lower Upper

75 100

77 1.3 20.8 62.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.18 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX004100.D

Acq: 16 Aug 2018 04:27

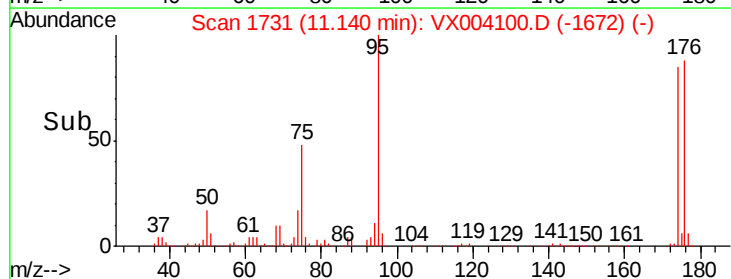
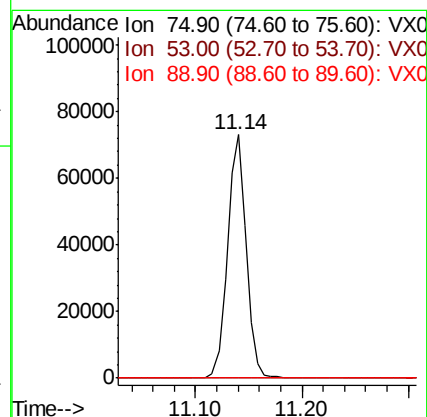
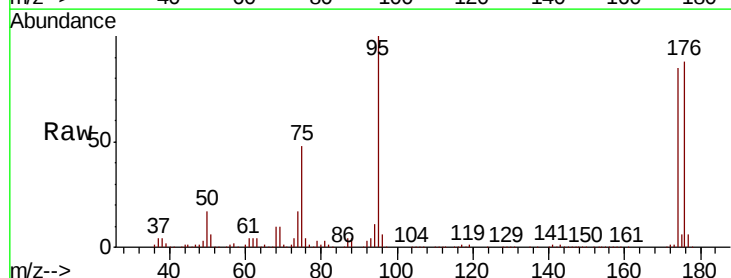
Tgt Ion: 75 Resp: 89198

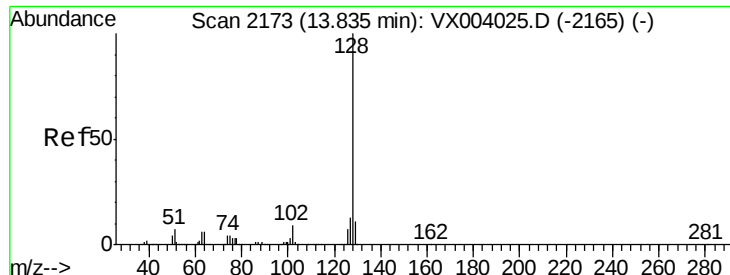
Ion Ratio Lower Upper

75 100

53 0.2 80.3 120.5#

89 0.0 37.8 56.8#





#95

Naphthalene

Concen: 1.17 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. 0.00 min

Lab File: VX004100.D

Acq: 16 Aug 2018 04:27

Instrument :

MSVOA_X

ClientSampleId :

DUP-0497-180814

Tot Ion:128 Resp: 394

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 4.8 8.8 13.2#

