

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX082018\
 Data File : VX004151.D
 Acq On : 20 Aug 2018 14:29
 Operator : JC/MD
 Sample : J4541-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0496-180815

Quant Time: Aug 21 01:02:23 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	269131	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	422567	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	401791	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	211611	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	212870	56.14	ug/l	0.00
Spiked Amount			Recovery	=	112.28%	
35) Dibromofluoromethane	5.50	113	183407	57.99	ug/l	0.00
Spiked Amount			Recovery	=	115.98%	
50) Toluene-d8	8.72	98	635356	49.55	ug/l	0.00
Spiked Amount			Recovery	=	99.10%	
62) 4-Bromofluorobenzene	11.14	95	210686	45.30	ug/l	0.00
Spiked Amount			Recovery	=	90.60%	

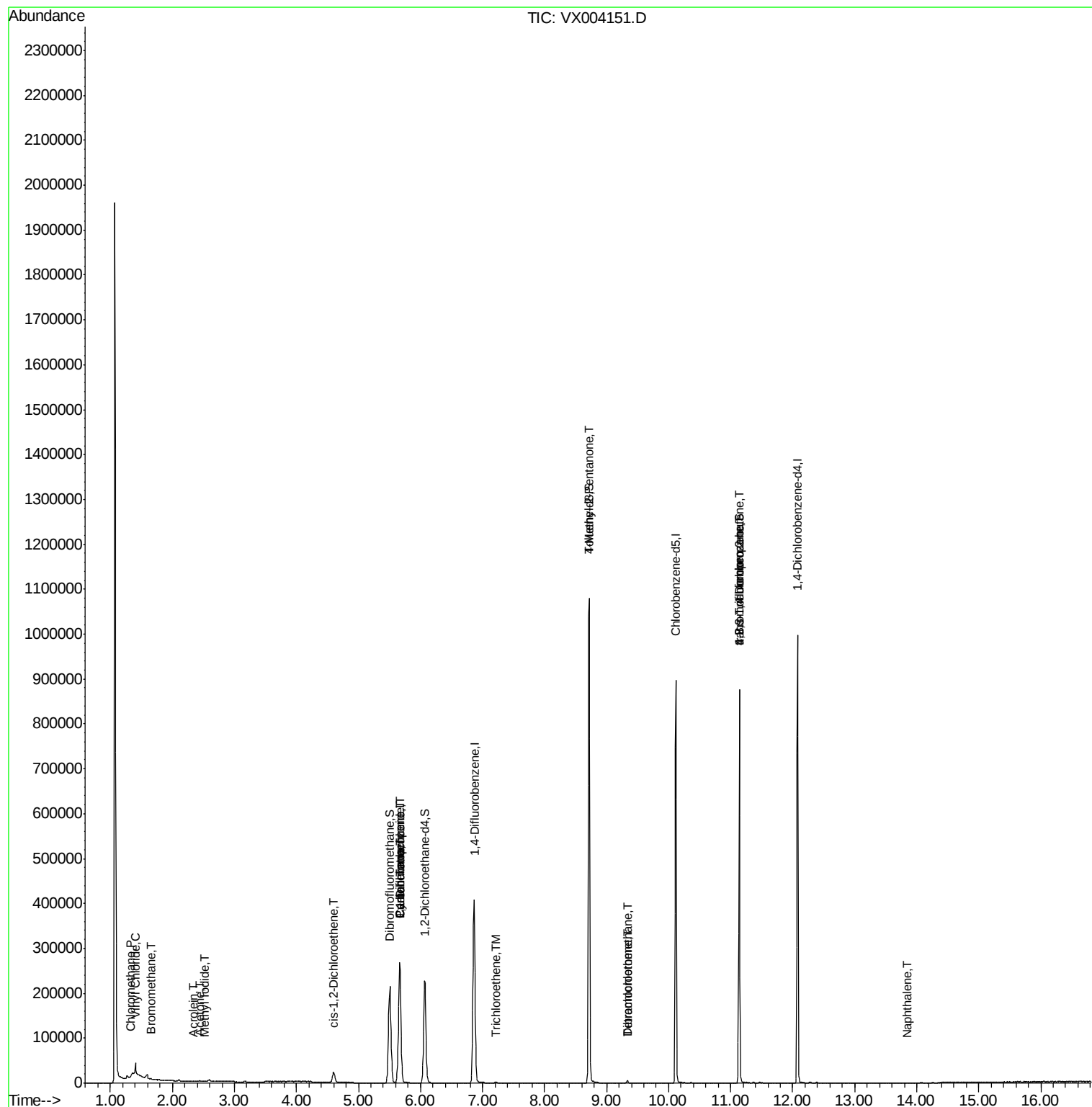
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	3542	1.10	ug/l	95
4) Vinyl Chloride	1.40	62	15931	4.58	ug/l	93
5) Bromomethane	1.66	94	799	0.28	ug/l	86
6) Chloroethane	1.85	64	865	Below Cal	#	63
10) Methyl Iodide	2.52	142	379	5.12	ug/l	# 76
13) Acrolein	2.34	56	22	10.99	ug/l	# 1
16) Acetone	2.43	43	984	0.50	ug/l	89
20) Methylene Chloride	2.85	84	297	Below Cal	#	77
27) cis-1,2-Dichloroethene	4.60	96	14145	3.91	ug/l	87
31) Cyclohexane	5.66	56	4769	0.91	ug/l	# 1
36) 1,1-Dichloropropene	5.66	75	18528	3.85	ug/l	# 49
38) Carbon Tetrachloride	5.67	117	23617	5.06	ug/l	# 14
44) Trichloroethene	7.21	130	813	0.21	ug/l	93
51) 4-Methyl-2-Pentanone	8.71	43	2522	0.40	ug/l	# 1
60) Dibromochloromethane	9.34	129	984	0.27	ug/l	# 11
64) Tetrachloroethene	9.34	164	1051	0.28	ug/l	93
76) 1,2,3-Trichloropropane	11.14	75	101136	23.83	ug/l	# 36
81) trans-1,4-Dichloro-2-buten	11.14	75	101136	73.77	ug/l	# 10
95) Naphthalene	13.84	128	191	1.16	ug/l	# 69

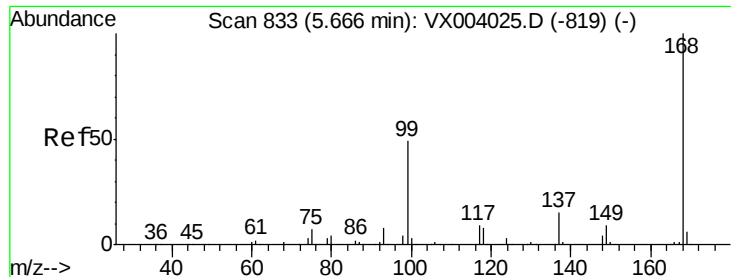
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX004151.D

Acq: 20 Aug 2018 14:29

Instrument :

MSVOA_X

ClientSampleId :

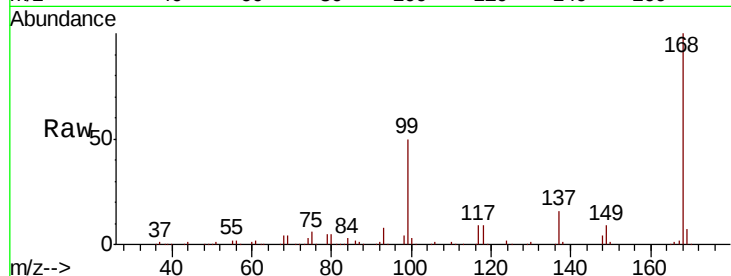
DUP-0496-180815

Tot Ion:168 Resp: 269131

Ion Ratio Lower Upper

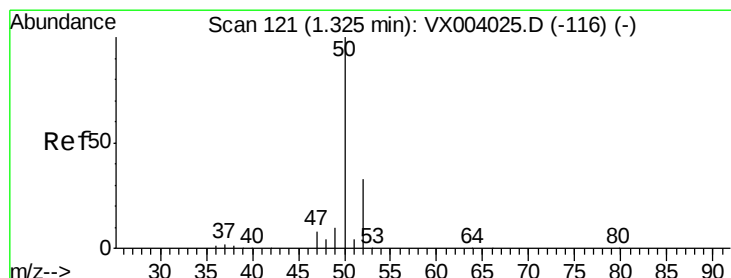
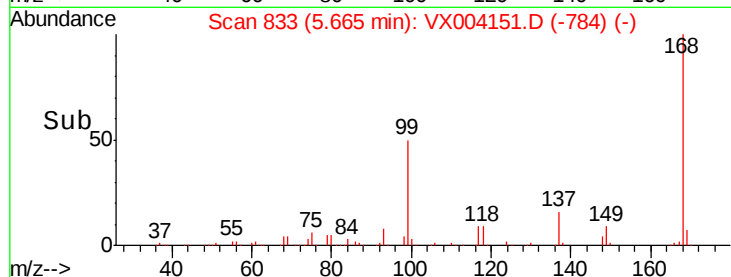
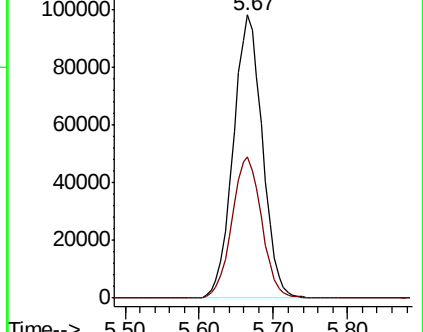
168 100

99 50.0 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 1.10 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX004151.D

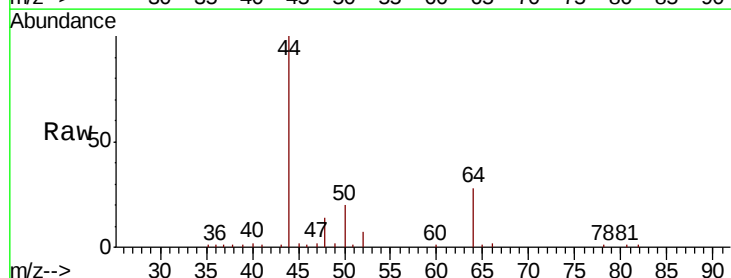
Acq: 20 Aug 2018 14:29

Tgt Ion: 50 Resp: 3542

Ion Ratio Lower Upper

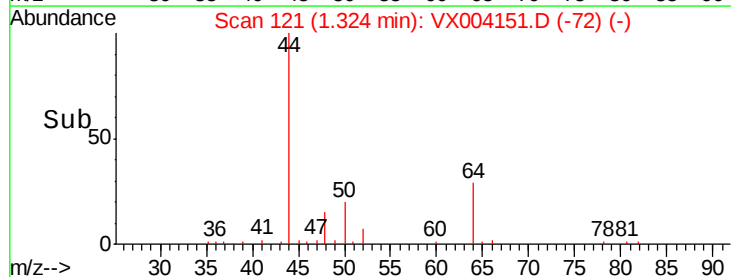
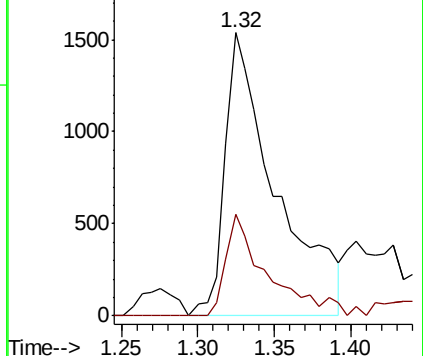
50 100

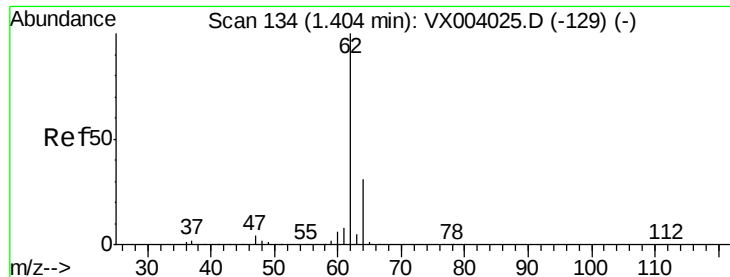
52 36.0 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 4.58 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX004151.D

Acq: 20 Aug 2018 14:29

Instrument :

MSVOA_X

ClientSampleId :

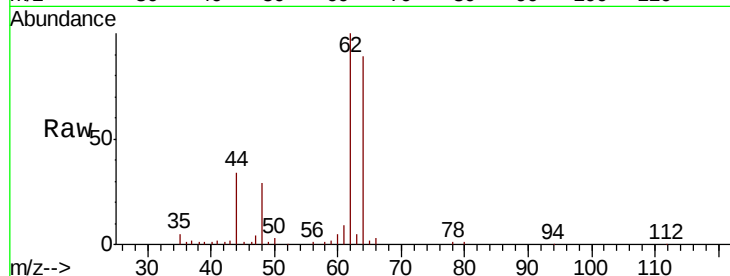
DUP-0496-180815

Tot Ion: 62 Resp: 15931

Ion Ratio Lower Upper

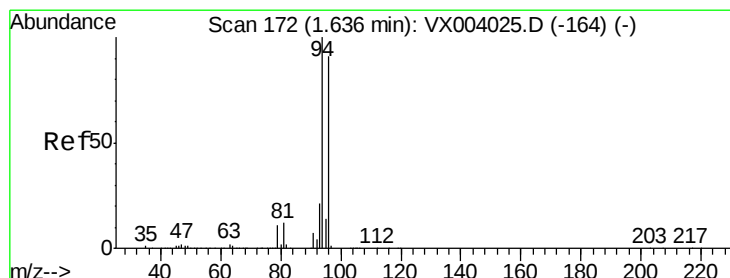
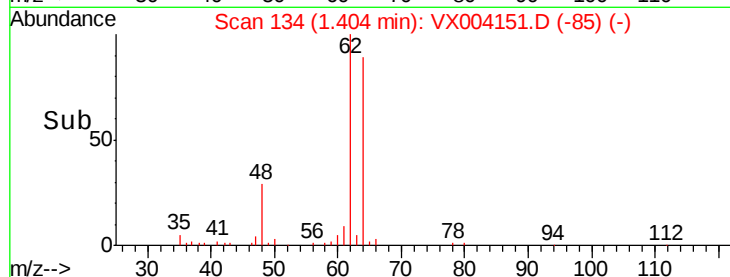
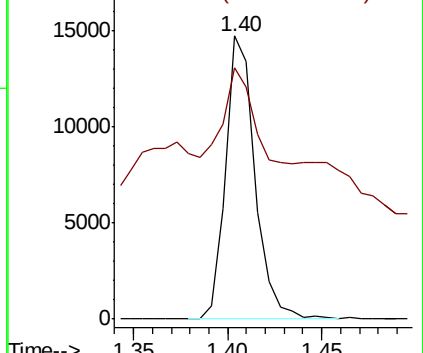
62 100

64 36.4 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.28 ug/l

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX004151.D

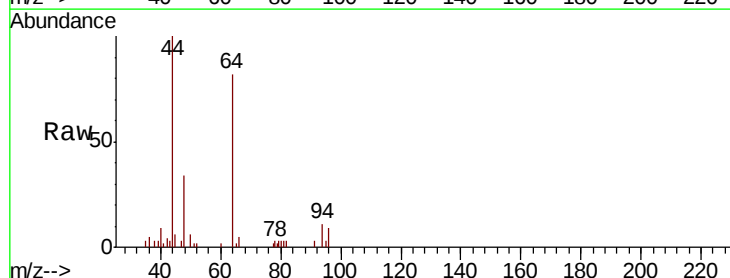
Acq: 20 Aug 2018 14:29

Tgt Ion: 94 Resp: 799

Ion Ratio Lower Upper

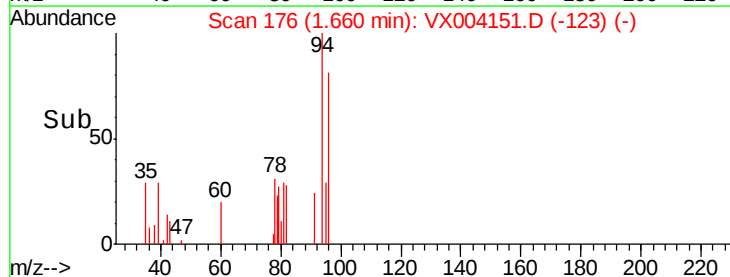
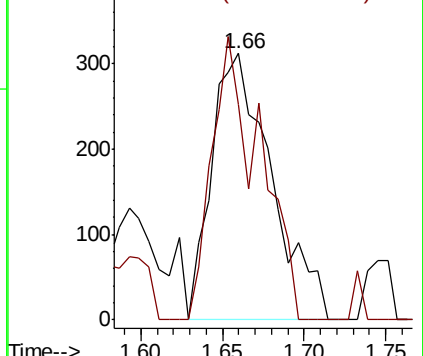
94 100

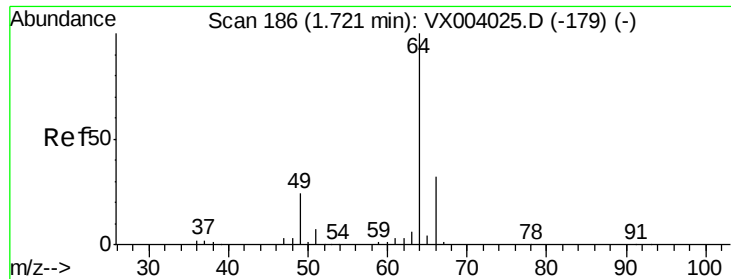
96 80.8 75.2 112.8



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: 1.85 min Scan# 207

Delta R.T. 0.13 min

Lab File: VX004151.D

Acq: 20 Aug 2018 14:29

Instrument :

MSVOA_X

ClientSampleId :

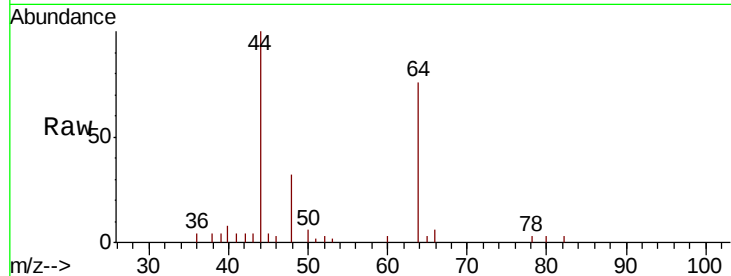
DUP-0496-180815

Tot Ion: 64 Resp: 865

Ion Ratio Lower Upper

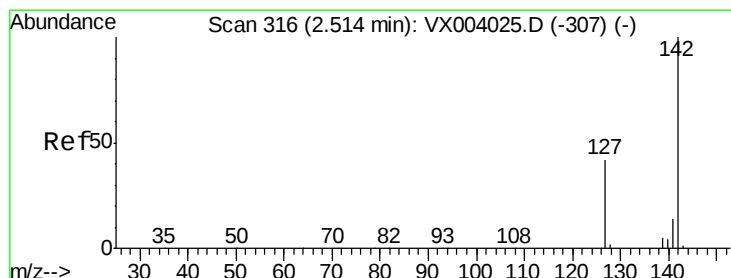
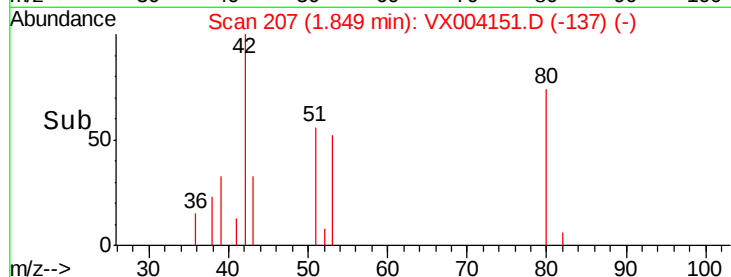
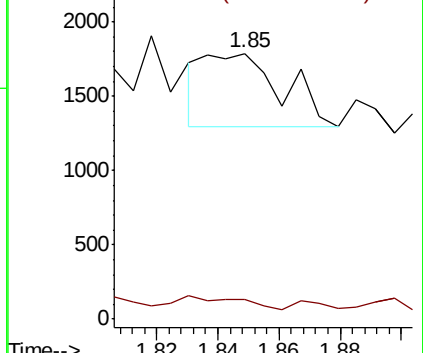
64 100

66 12.1 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: 5.12 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX004151.D

Acq: 20 Aug 2018 14:29

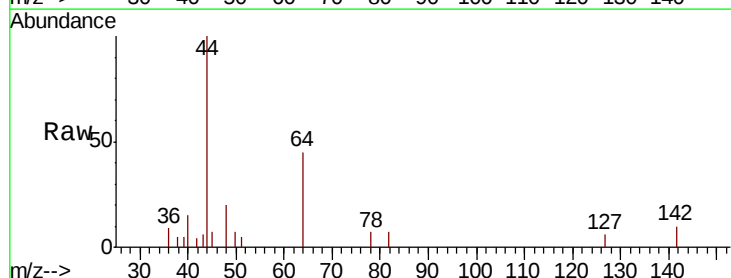
Tgt Ion: 142 Resp: 379

Ion Ratio Lower Upper

142 100

127 54.4 33.1 49.7#

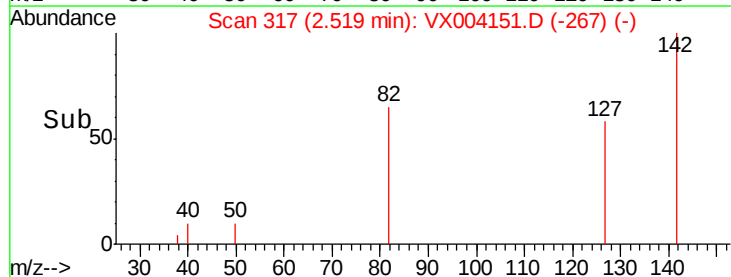
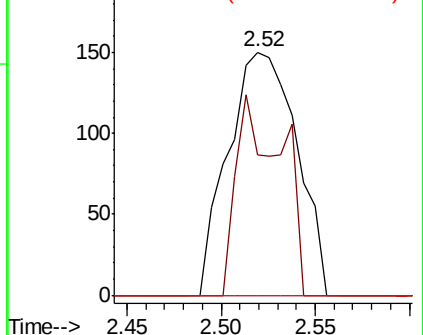
141 0.0 11.1 16.7#

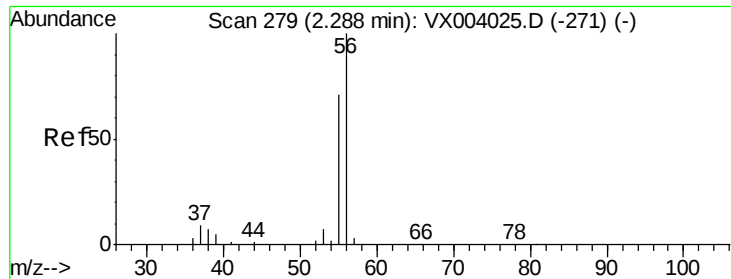


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#13

Acrolein

Concen: 10.99 ug/l

RT: 2.34 min Scan# 287

Delta R.T. 0.05 min

Lab File: VX004151.D

Acq: 20 Aug 2018 14:29

Instrument :

MSVOA_X

ClientSampleId :

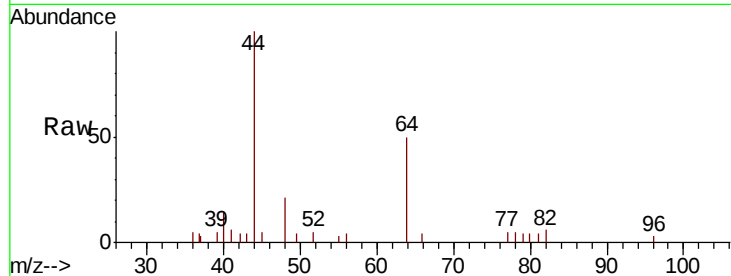
DUP-0496-180815

Tot Ion: 56 Resp: 22

Ion Ratio Lower Upper

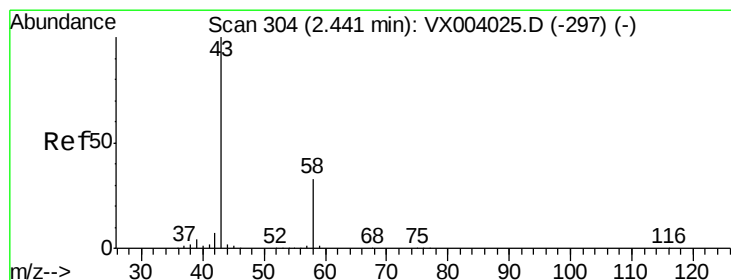
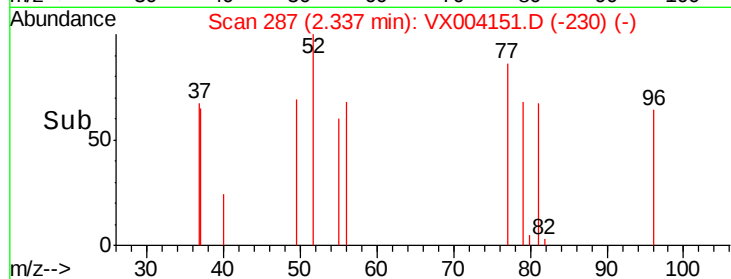
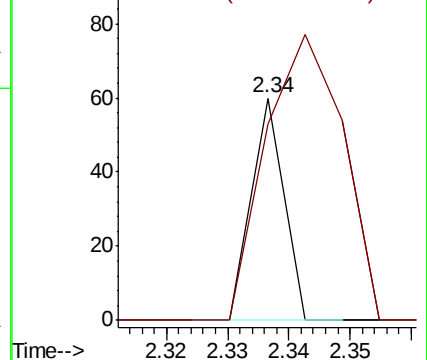
56 100

55 304.5 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.50 ug/l

RT: 2.43 min Scan# 303

Delta R.T. -0.01 min

Lab File: VX004151.D

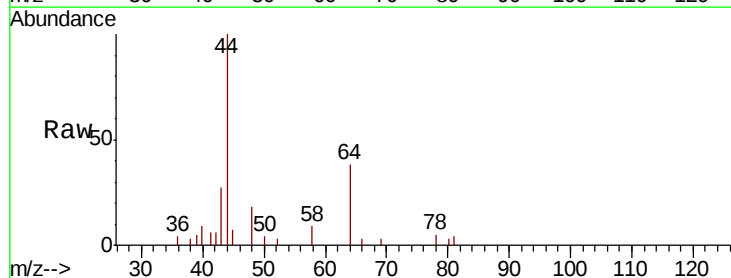
Acq: 20 Aug 2018 14:29

Tgt Ion: 43 Resp: 984

Ion Ratio Lower Upper

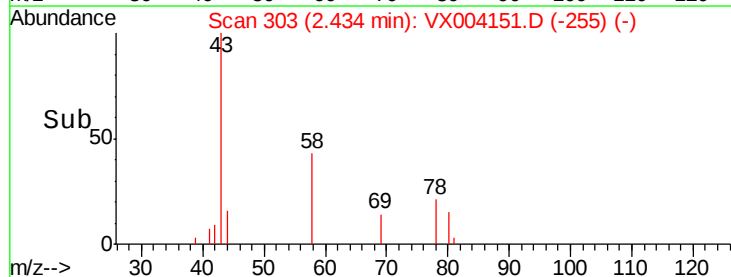
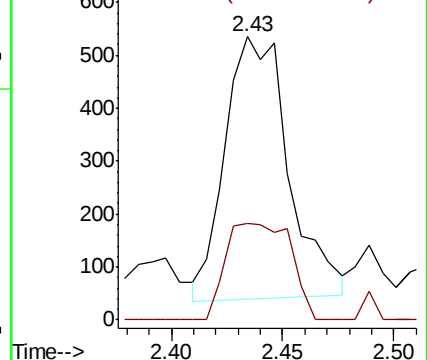
43 100

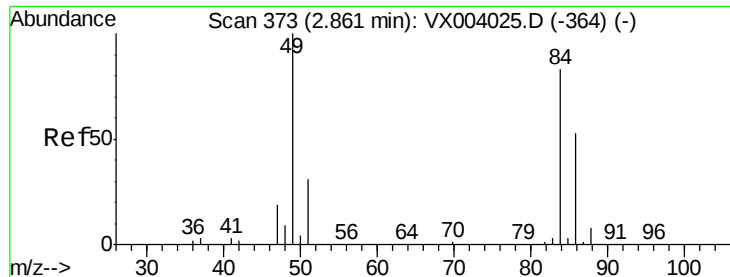
58 39.4 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

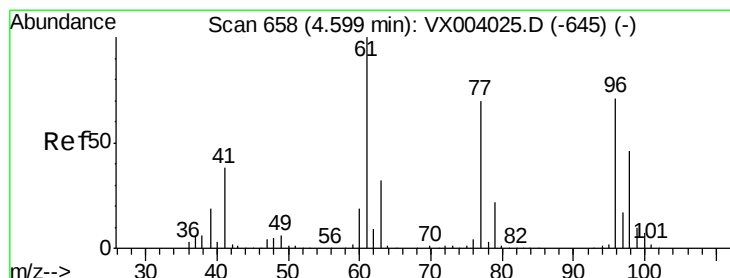
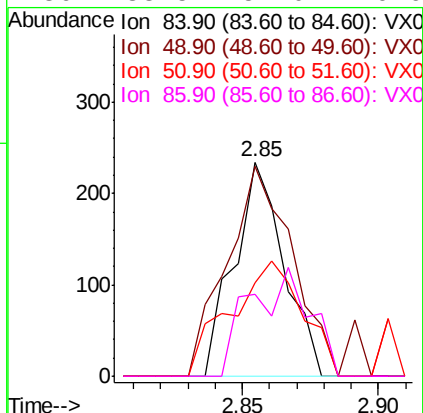
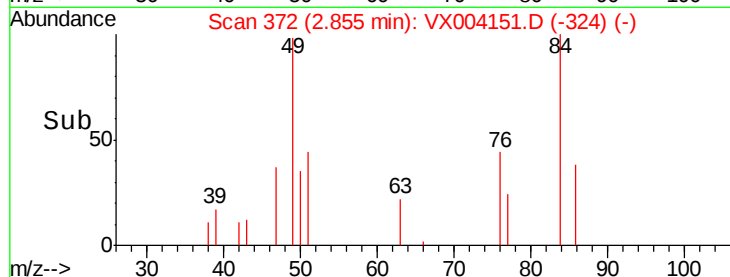
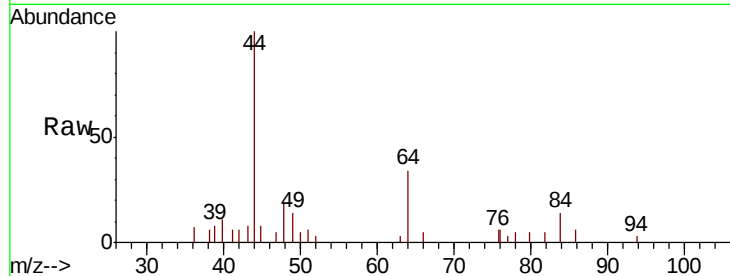




#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX004151.D
Acq: 20 Aug 2018 14:29

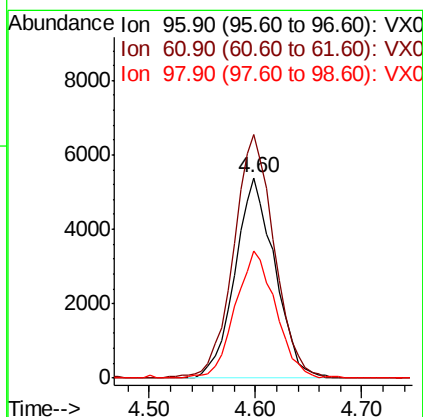
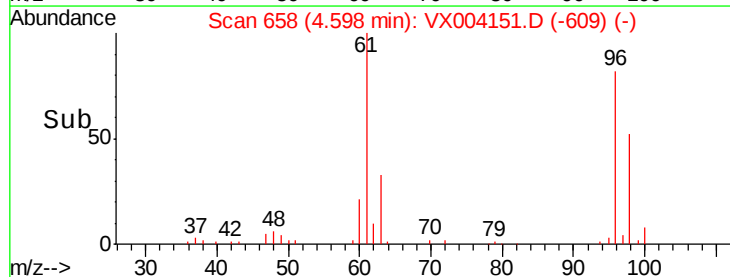
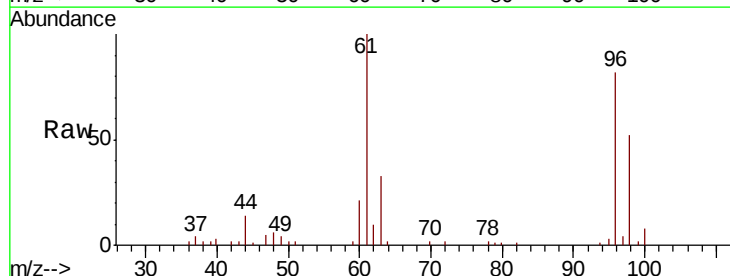
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DUP-0496-180815

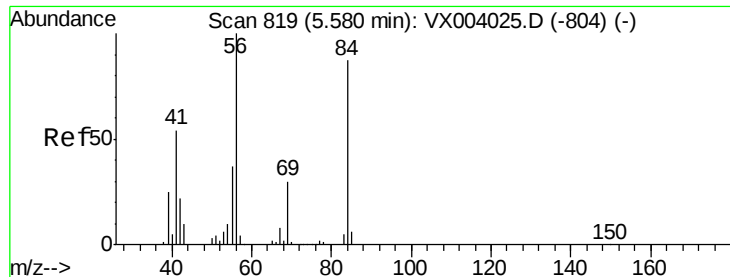
Tot Ion: 84 Resp: 297
Ion Ratio Lower Upper
84 100
49 98.3 98.9 148.3#
51 43.6 29.9 44.9
86 38.5 51.0 76.6#



#27
cis-1,2-Dichloroethene
Concen: 3.91 ug/l
RT: 4.60 min Scan# 658
Delta R.T. -0.00 min
Lab File: VX004151.D
Acq: 20 Aug 2018 14:29

Tgt Ion: 96 Resp: 14145
Ion Ratio Lower Upper
96 100
61 124.0 0.0 293.0
98 64.2 0.0 131.8

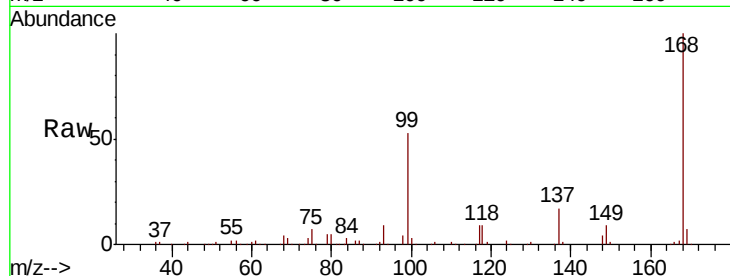




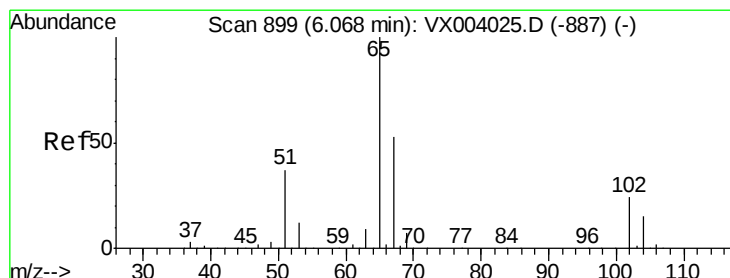
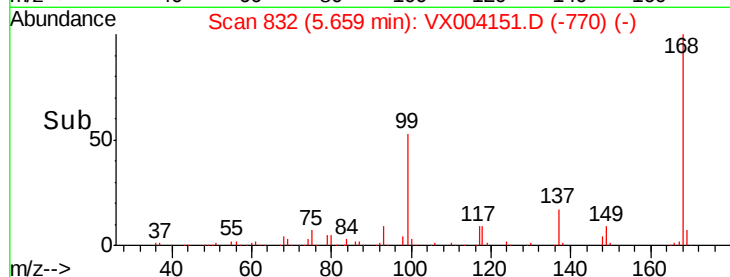
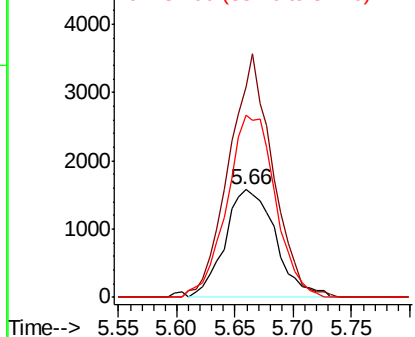
#31
Cyclohexane
Concen: 0.91 ug/l
RT: 5.66 min Scan# 832
Delta R.T. 0.08 min
Lab File: VX004151.D
Acq: 20 Aug 2018 14:29

Instrument :
MSVOA_X
ClientSampleId :
DUP-0496-180815

Tot Ion: 56 Resp: 4769
Ion Ratio Lower Upper
56 100
69 196.2 24.9 37.3#
84 170.1 71.7 107.5#

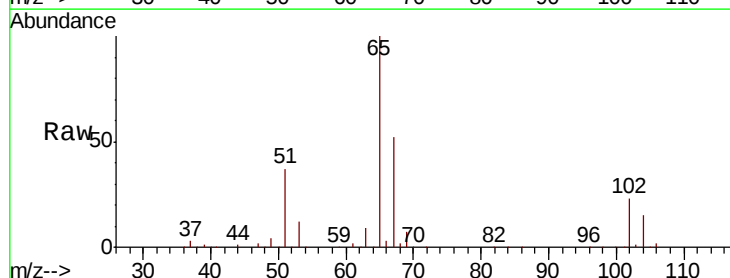


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

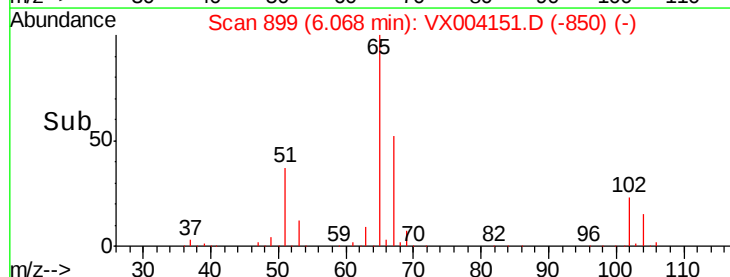
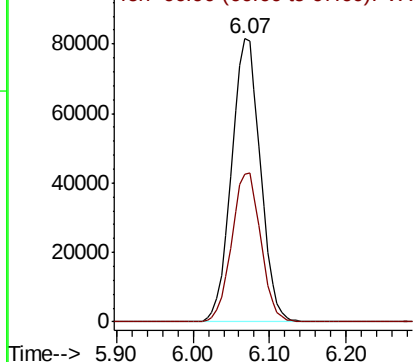


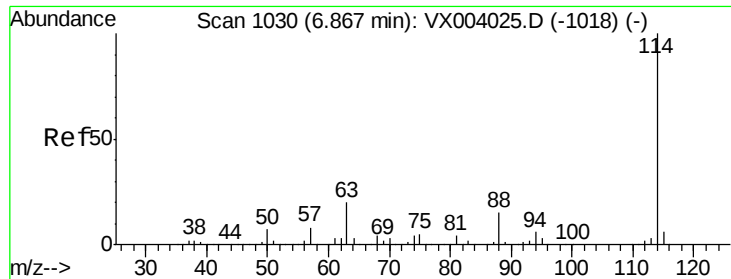
#33
1,2-Dichloroethane-d4
Concen: 56.14 ug/l
RT: 6.07 min Scan# 899
Delta R.T. -0.00 min
Lab File: VX004151.D
Acq: 20 Aug 2018 14:29

Tgt Ion: 65 Resp: 212870
Ion Ratio Lower Upper
65 100
67 52.9 0.0 105.8



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





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX004151.D

Acq: 20 Aug 2018 14:29

Instrument :

MSVOA_X

ClientSampleId :

DUP-0496-180815

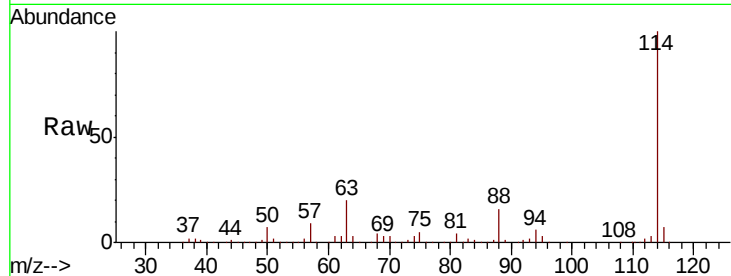
Tot Ion:114 Resp: 422567

Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.0

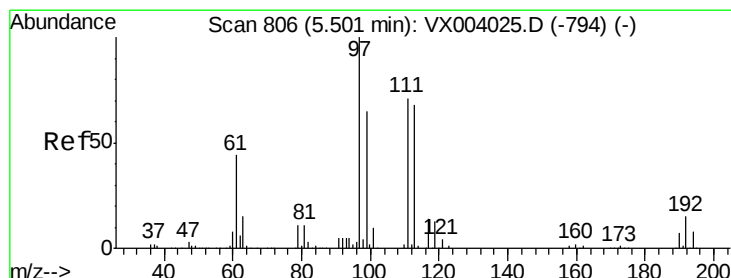
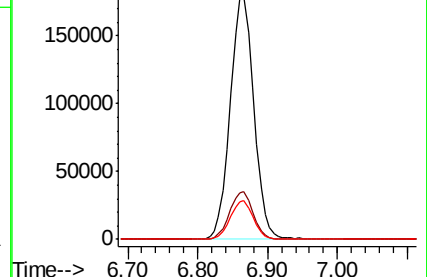
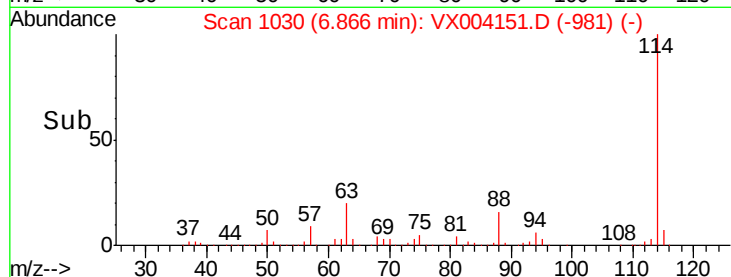
88 15.8 0.0 32.0



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: 57.99 ug/l

RT: 5.50 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004151.D

Acq: 20 Aug 2018 14:29

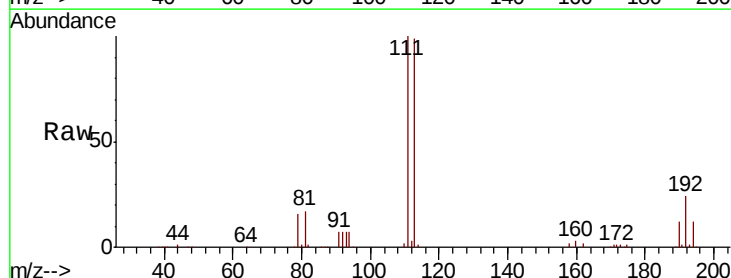
Tgt Ion:113 Resp: 183407

Ion Ratio Lower Upper

113 100

111 102.7 82.0 123.0

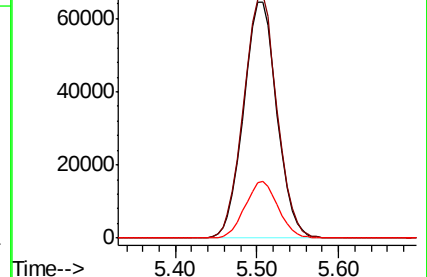
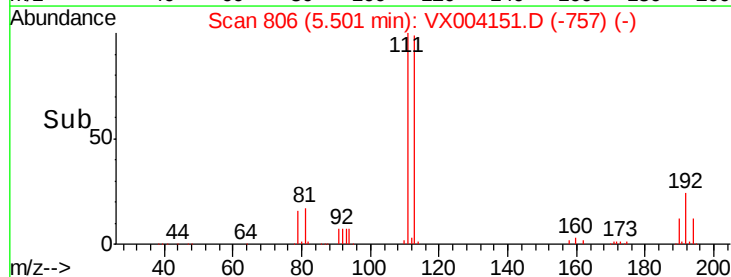
192 24.0 19.0 28.4

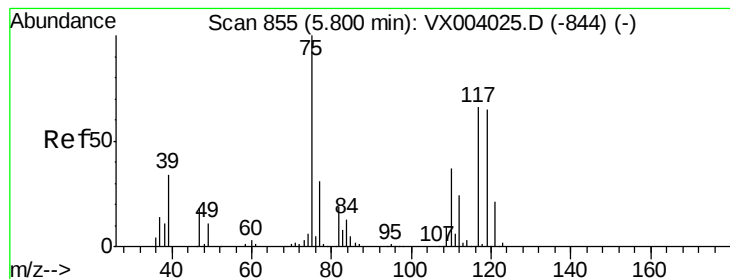


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.85 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.14 min

Lab File: VX004151.D

Acq: 20 Aug 2018 14:29

Instrument :

MSVOA_X

ClientSampleId :

DUP-0496-180815

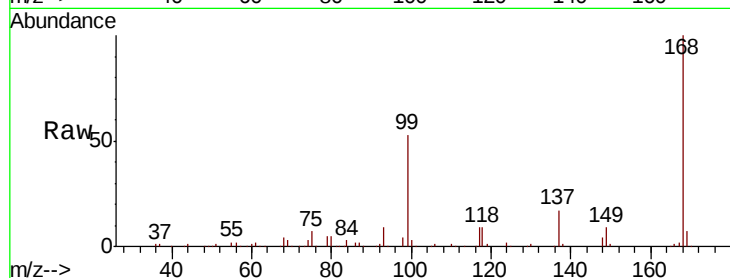
Tot Ion: 75 Resp: 18528

Ion Ratio Lower Upper

75 100

110 9.0 18.2 54.6#

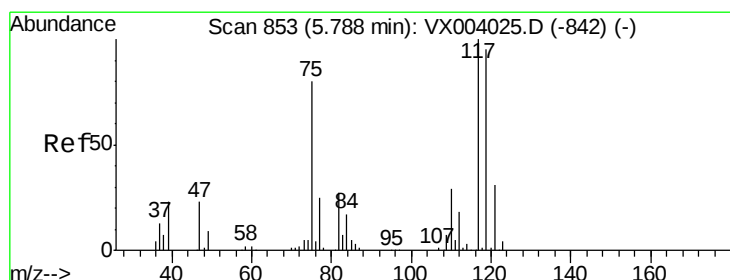
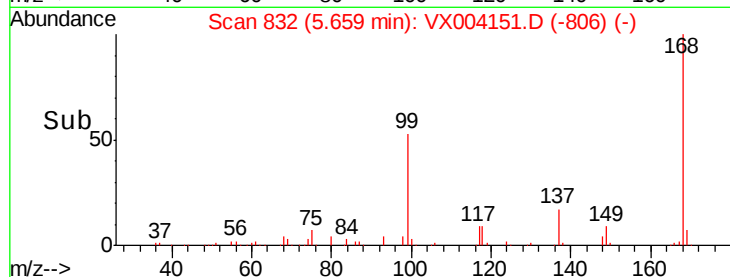
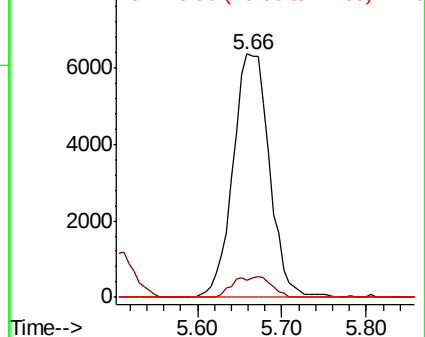
77 0.0 25.0 37.4#



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: 5.06 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX004151.D

Acq: 20 Aug 2018 14:29

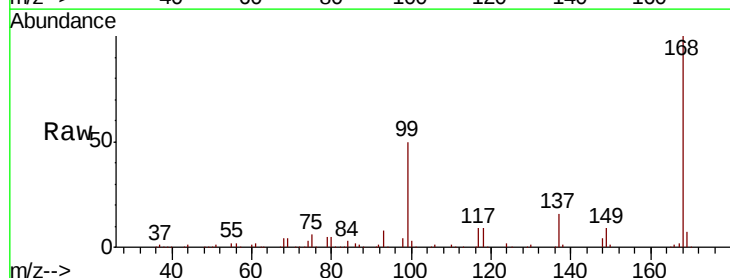
Tgt Ion: 117 Resp: 23617

Ion Ratio Lower Upper

117 100

119 5.0 79.5 119.3#

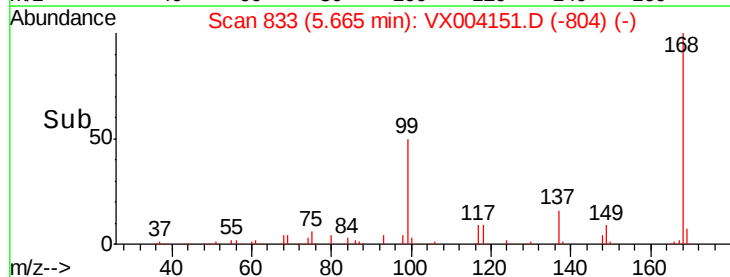
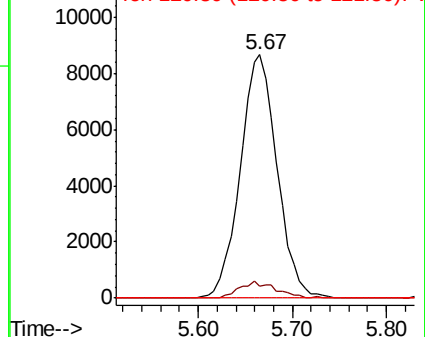
121 0.0 25.0 37.4#

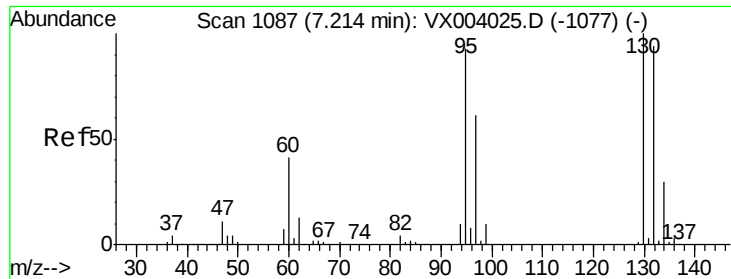


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 0.21 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. -0.00 min

Lab File: VX004151.D

Acq: 20 Aug 2018 14:29

Instrument :

MSVOA_X

ClientSampleId :

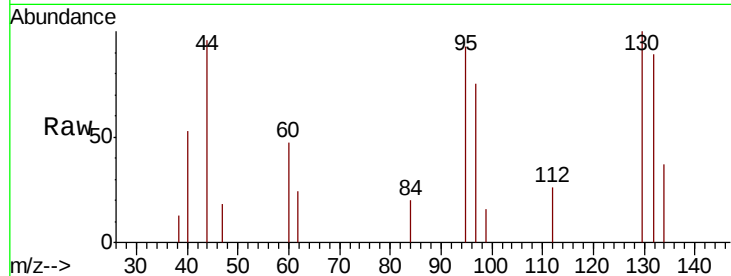
DUP-0496-180815

Tot Ion:130 Resp: 813

Ion Ratio Lower Upper

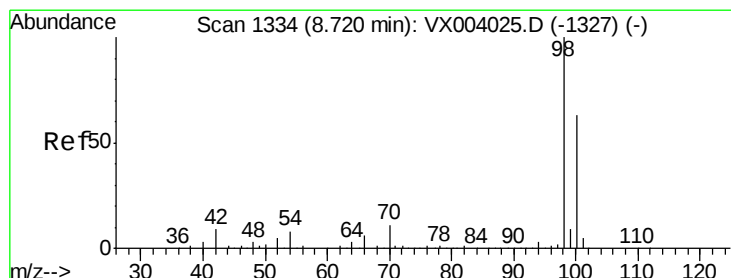
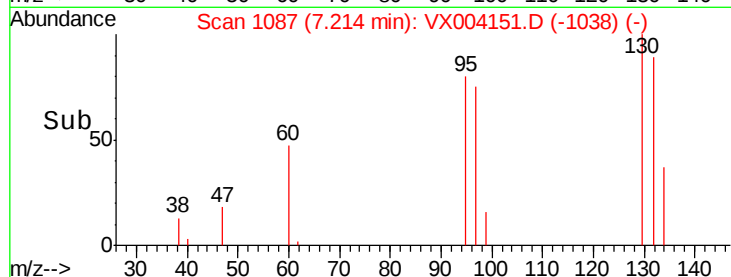
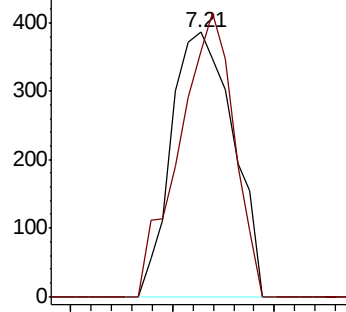
130 100

95 93.0 0.0 199.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 49.55 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX004151.D

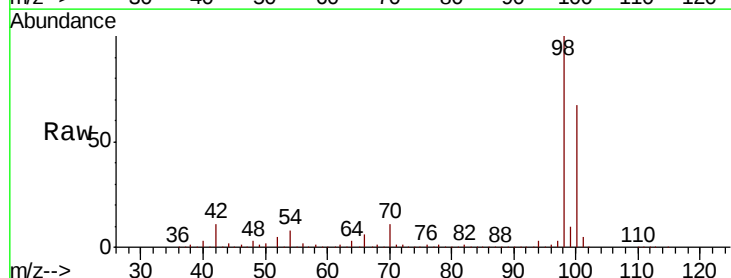
Acq: 20 Aug 2018 14:29

Tgt Ion: 98 Resp: 635356

Ion Ratio Lower Upper

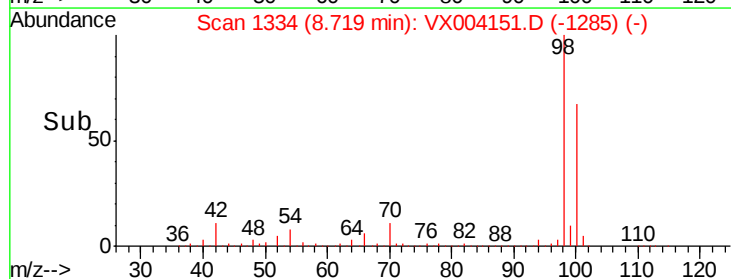
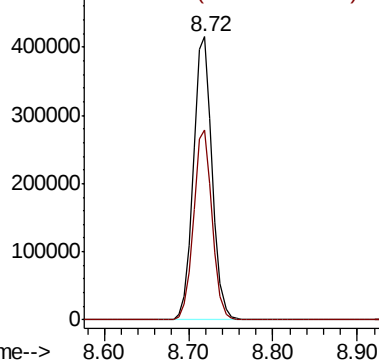
98 100

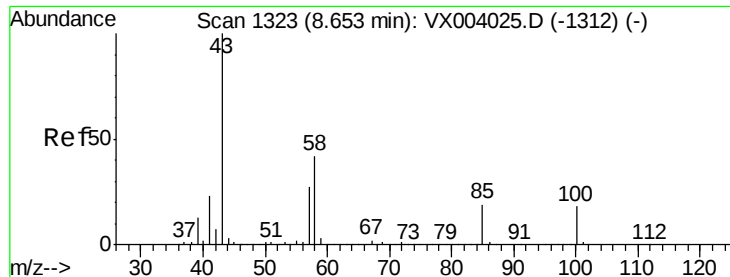
100 66.4 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.40 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. 0.06 min

Lab File: VX004151.D

Acq: 20 Aug 2018 14:29

Instrument :

MSVOA_X

ClientSampleId :

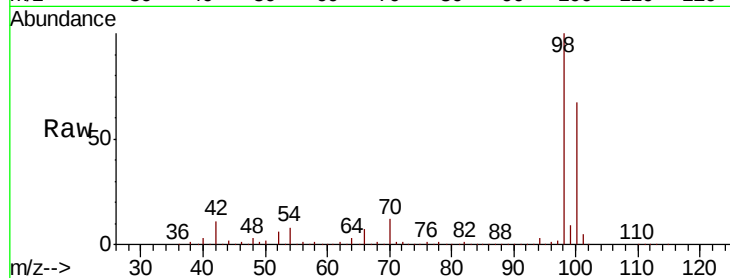
DUP-0496-180815

Tot Ion: 43 Resp: 2522

Ion Ratio Lower Upper

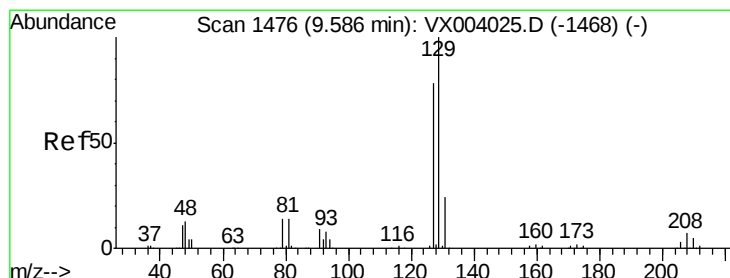
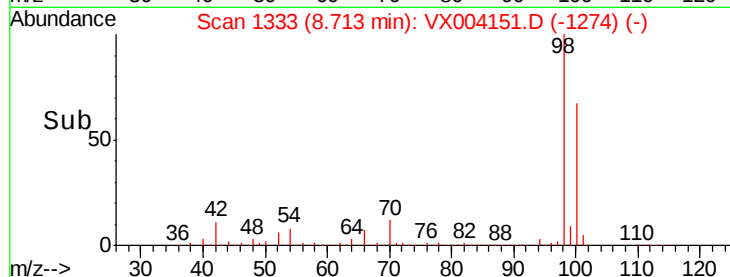
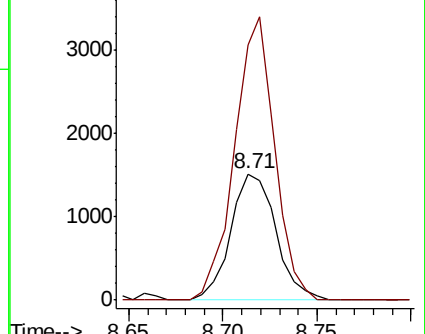
43 100

58 197.5 33.0 49.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#60

Dibromochloromethane

Concen: 0.27 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.25 min

Lab File: VX004151.D

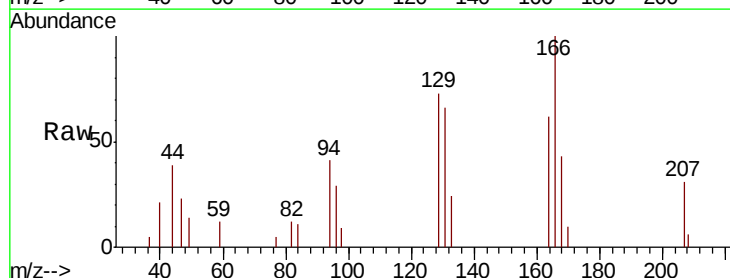
Acq: 20 Aug 2018 14:29

Tgt Ion: 129 Resp: 984

Ion Ratio Lower Upper

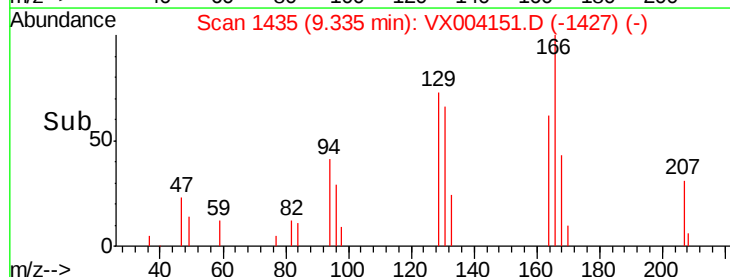
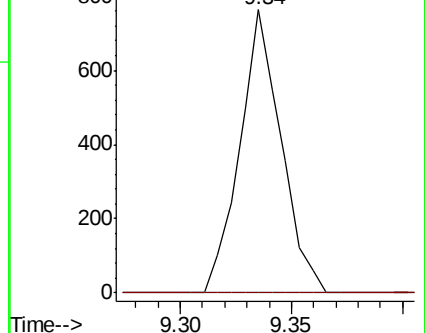
129 100

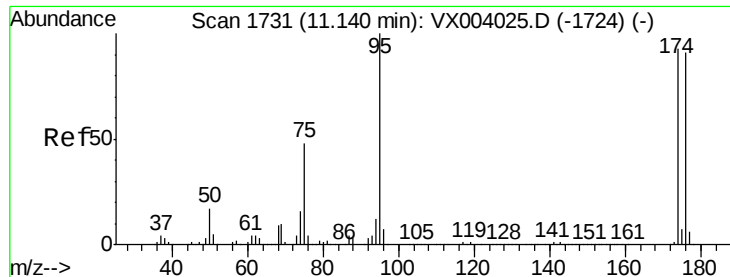
127 0.0 38.8 116.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

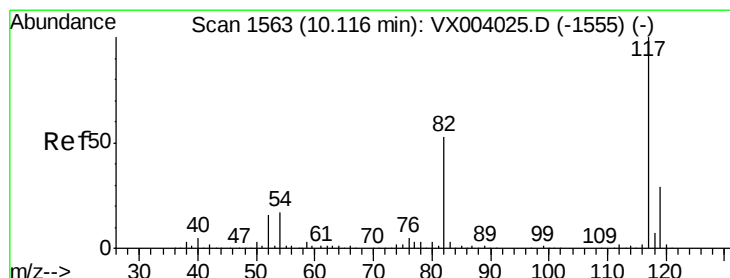
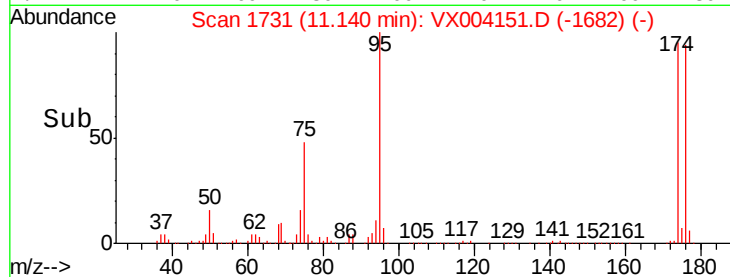
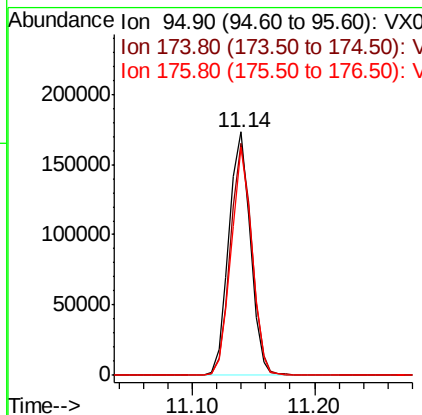
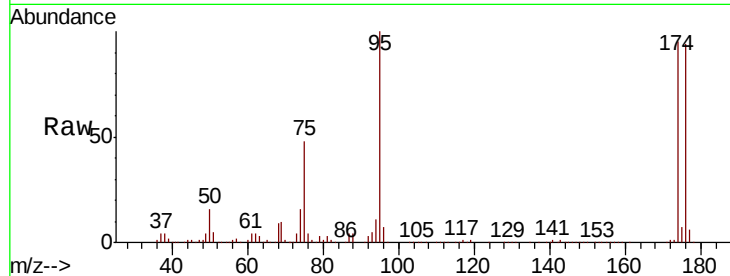




#62
4-Bromofluorobenzene
Concen: 45.30 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX004151.D
Acq: 20 Aug 2018 14:29

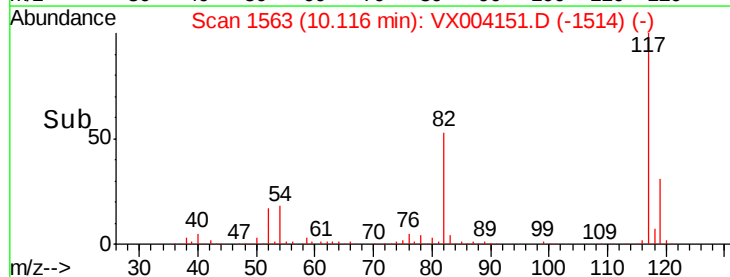
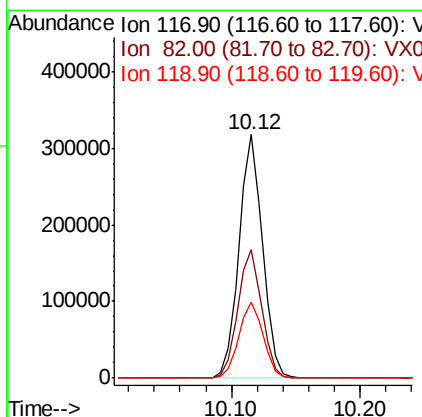
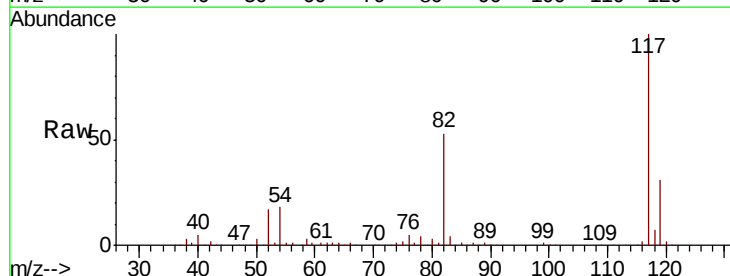
Instrument :
MSVOA_X
ClientSampleId :
DUP-0496-180815

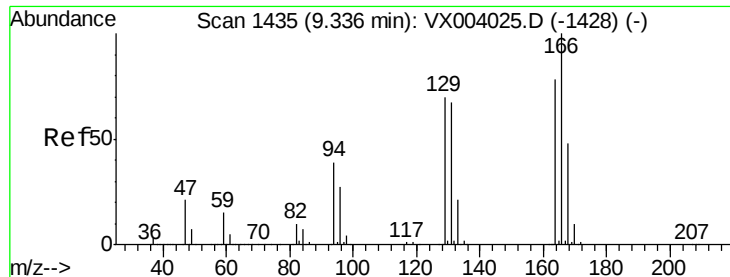
Tot Ion	95	Resp	210686
Ion Ratio	100		
Lower			
Upper			
95	100		
174	94.5	0.0	182.8
176	90.2	0.0	179.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004151.D
Acq: 20 Aug 2018 14:29

Tgt Ion	117	Resp	401791
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower <td></td> <td></td> <td></td>			
Upper <td></td> <td></td> <td></td>			
117	100		
82	53.0	45.4	68.0
119	31.3	26.6	40.0

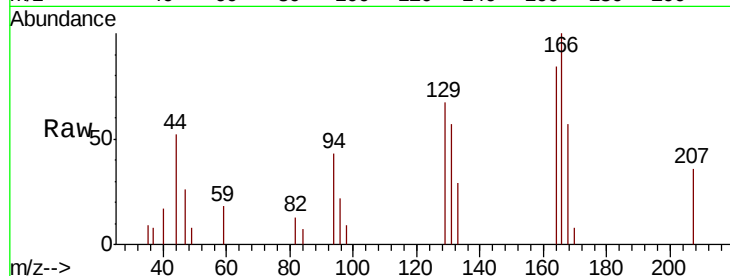




#64
Tetrachloroethene
Concen: 0.28 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. 0.01 min
Lab File: VX004151.D
Acq: 20 Aug 2018 14:29

Instrument :
MSVOA_X
ClientSampleId :
DUP-0496-180815

Tot Ion:	164	Resp:	1051
Ion	Ratio	Lower	Upper
164	100		
166	118.8	98.0	147.0
129	79.1	64.3	96.5
131	68.1	66.8	100.2



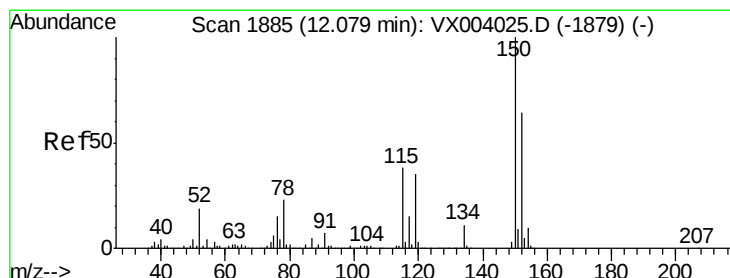
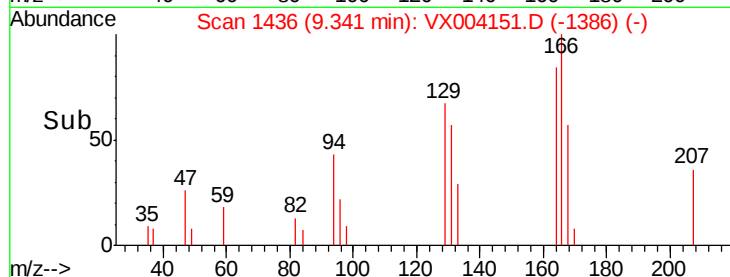
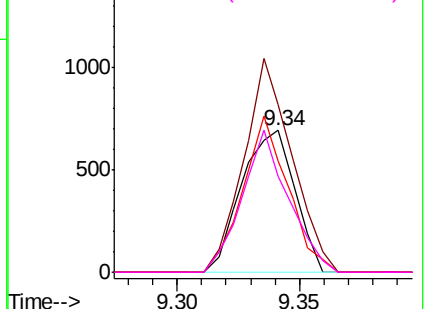
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

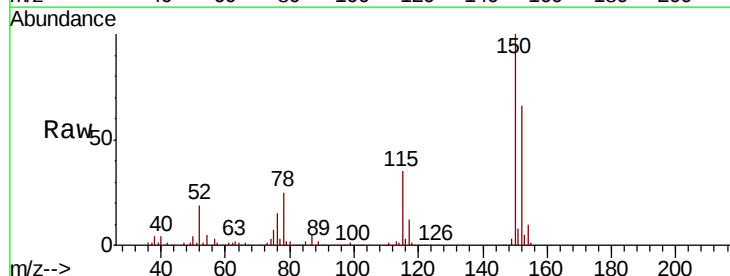
Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VX004151.D
Acq: 20 Aug 2018 14:29

Tgt Ion:	152	Resp:	211611
Ion	Ratio	Lower	Upper
152	100		
115	54.8	39.1	117.3
150	152.0	0.0	349.2

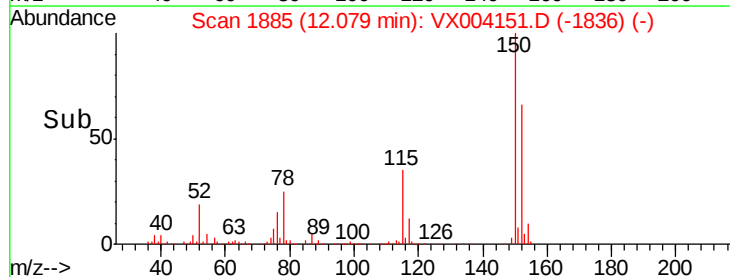
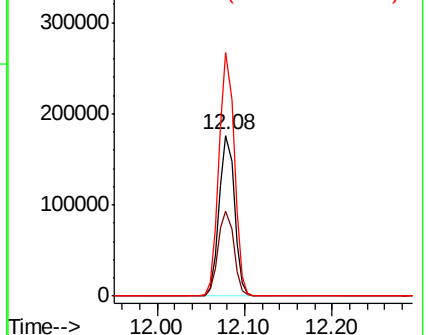


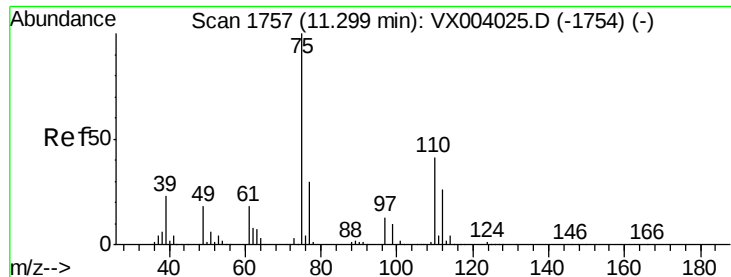
Abundance

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: 23.83 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004151.D

Acq: 20 Aug 2018 14:29

Instrument :

MSVOA_X

ClientSampleId :

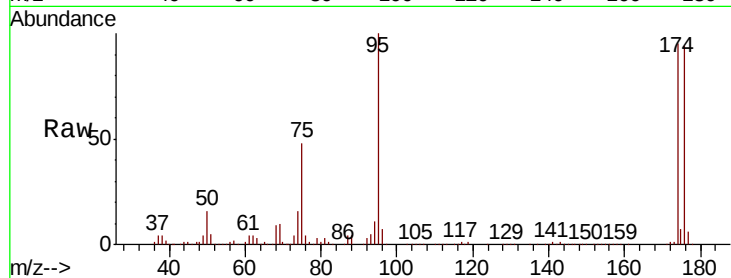
DUP-0496-180815

Tot Ion: 75 Resp: 101136

Ion Ratio Lower Upper

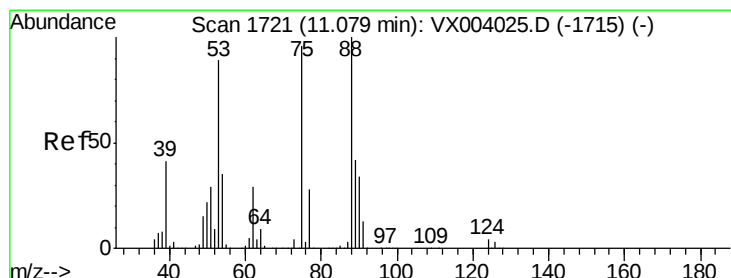
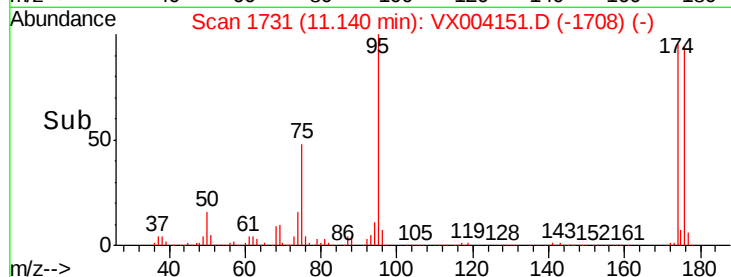
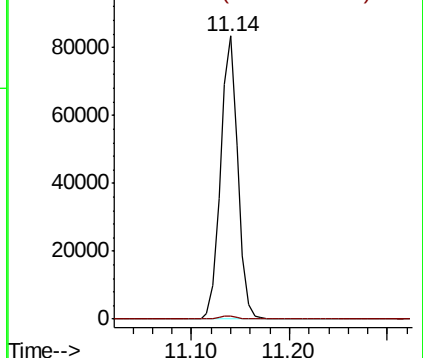
75 100

77 1.3 20.8 62.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 73.77 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX004151.D

Acq: 20 Aug 2018 14:29

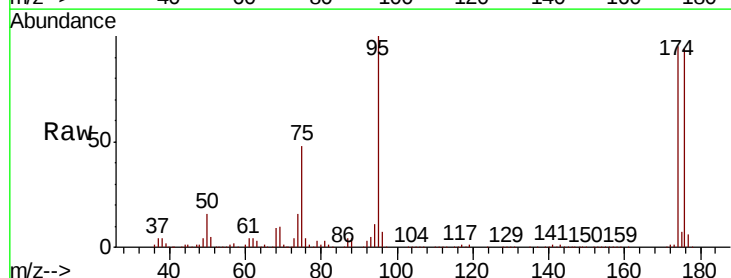
Tgt Ion: 75 Resp: 101136

Ion Ratio Lower Upper

75 100

53 0.3 80.3 120.5#

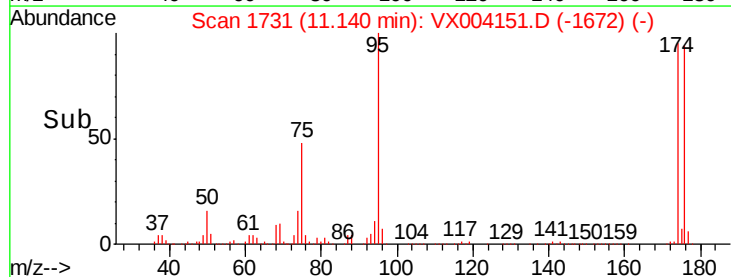
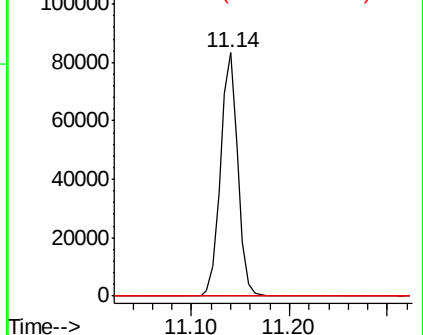
89 0.0 37.8 56.8#

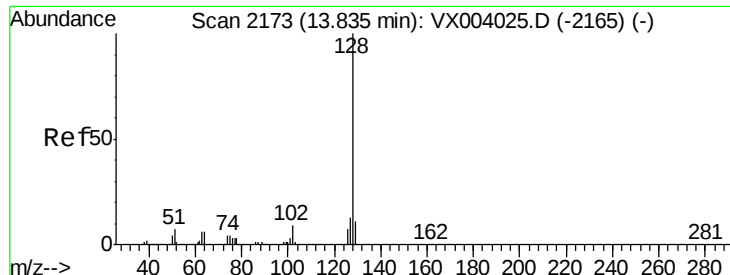


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95

Naphthalene

Concen: 1.16 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.01 min

Lab File: VX004151.D

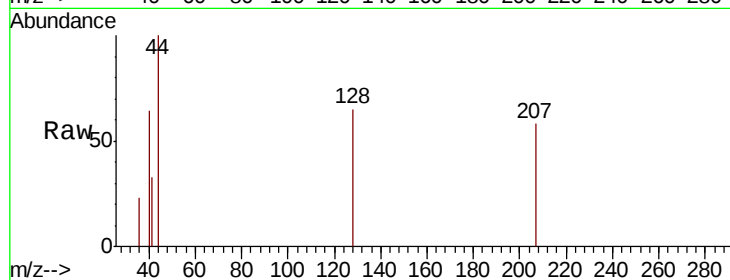
Acq: 20 Aug 2018 14:29

Instrument :

MSVOA_X

ClientSampleId :

DUP-0496-180815



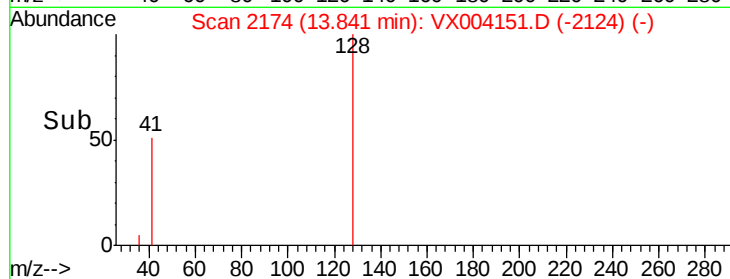
Tot Ion:128 Resp: 191

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

