

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100818\
 Data File : VX005150.D
 Acq On : 09 Oct 2018 02:16
 Operator : JC/MD
 Sample : J5189-10DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-101D-20180928DL

Quant Time: Oct 09 06:02:27 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	193430	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	282019	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	277701	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	152025	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	141814	51.32	ug/l	0.00
Spiked Amount			Recovery	=	102.64%	
35) Dibromofluoromethane	5.51	113	128989	53.97	ug/l	0.00
Spiked Amount			Recovery	=	107.94%	
50) Toluene-d8	8.72	98	410868	51.71	ug/l	0.00
Spiked Amount			Recovery	=	103.42%	
62) 4-Bromofluorobenzene	11.14	95	143125	50.00	ug/l	0.00
Spiked Amount			Recovery	=	100.00%	

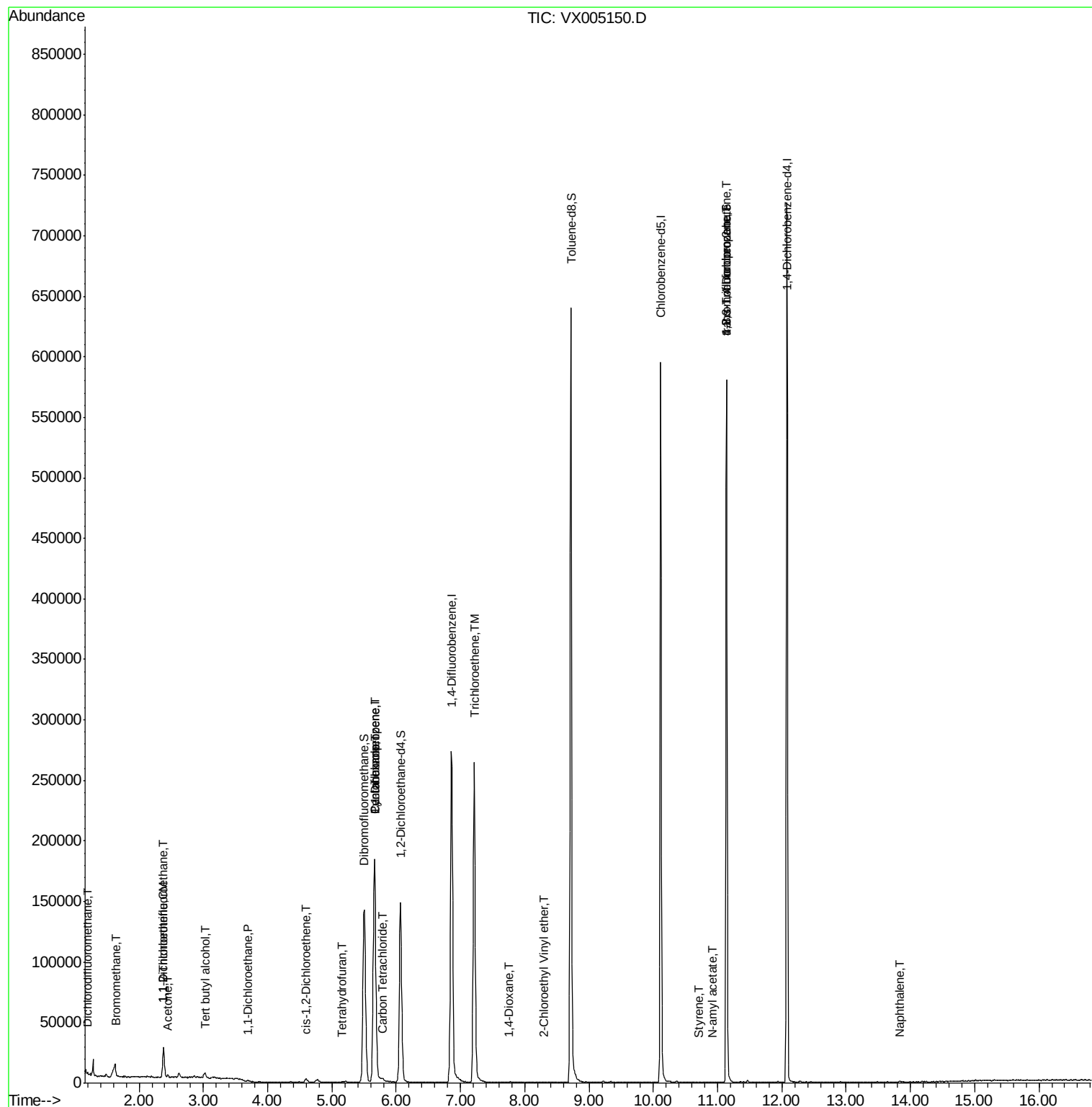
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	695	0.264	ug/l	93
5) Bromomethane	1.64	94	484	0.272	ug/l #	37
6) Chloroethane	1.68	64	77	Below Cal	#	1
9) 1,1,2-Trichlorotrifluoroet	2.38	101	6930	3.275	ug/l	98
11) Tert butyl alcohol	3.02	59	2652	3.433	ug/l #	77
12) 1,1-Dichloroethene	2.37	96	3042	1.451	ug/l	87
16) Acetone	2.45	43	1916	1.188	ug/l	100
20) Methylene Chloride	2.85	84	494	Below Cal	#	71
24) 1,1-Dichloroethane	3.70	63	1159	0.252	ug/l #	84
27) cis-1,2-Dichloroethene	4.60	96	1186	0.463	ug/l	40
29) Tetrahydrofuran	5.16	42	416	0.281	ug/l #	79
31) Cyclohexane	5.67	56	3778	1.075	ug/l #	22
36) 1,1-Dichloropropene	5.67	75	13486	4.135	ug/l #	46
38) Carbon Tetrachloride	5.77	117	989	0.289	ug/l #	97
44) Trichloroethene	7.21	130	108315	43.157	ug/l	95
49) 1,4-Dioxane	7.76	88	226	3.208	ug/l #	61
58) 2-Chloroethyl Vinyl ether	8.30	63	24	14.253	ug/l #	49
70) Styrene	10.72	104	21	2.143	ug/l #	25
74) N-amyl acetate	10.92	43	62	1.759	ug/l #	53
76) 1,2,3-Trichloropropane	11.14	75	70853	20.794	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	98	Below Cal		90
81) trans-1,4-Dichloro-2-buten	11.14	75	70853	56.445	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	195	Below Cal		81
95) Naphthalene	13.83	128	245	0.739	ug/l #	79

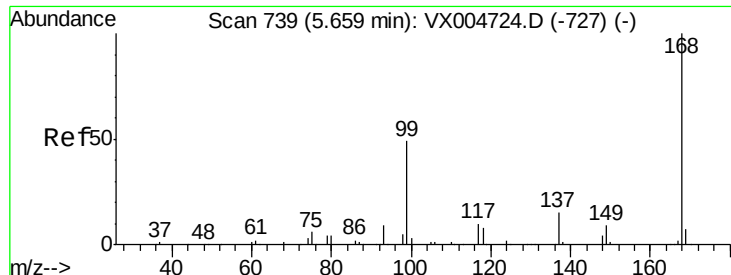
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 03 04:00:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005150.D

Acq: 09 Oct 2018 02:16

Instrument :

MSVOA_X

ClientSampleId :

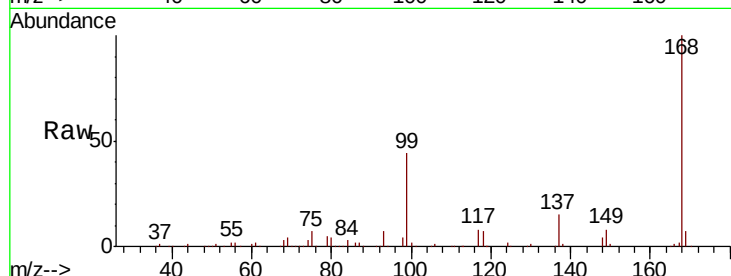
TT-101D-20180928DL

Tot Ion:168 Resp: 193430

Ion Ratio Lower Upper

168 100

99 44.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

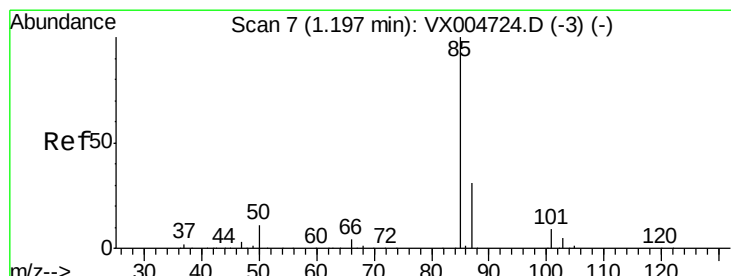
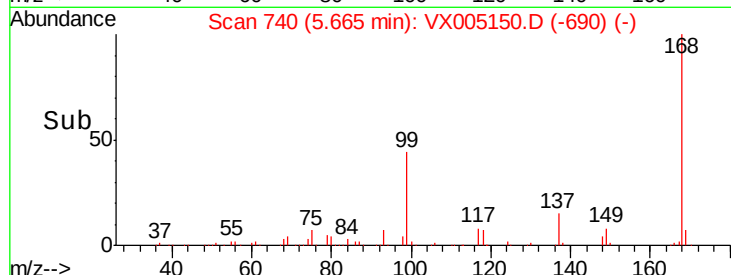
40000

20000

0

5.60 5.70 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 0.264 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX005150.D

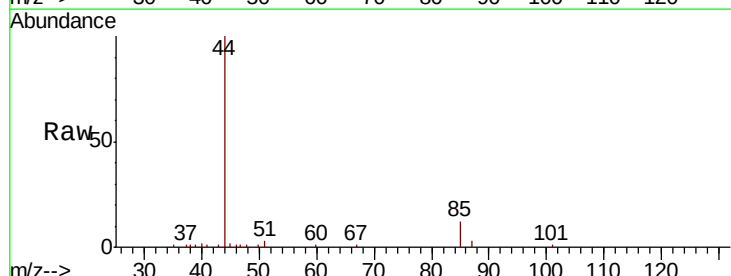
Acq: 09 Oct 2018 02:16

Tgt Ion: 85 Resp: 695

Ion Ratio Lower Upper

85 100

87 27.7 15.7 47.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

800

600

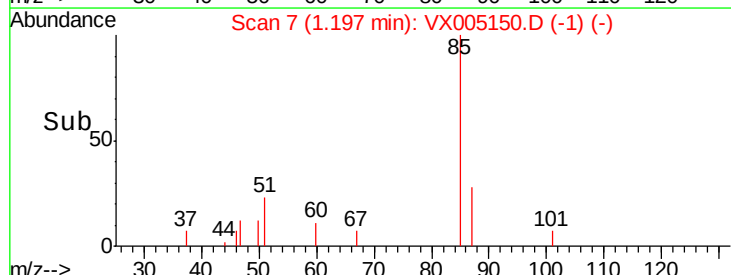
400

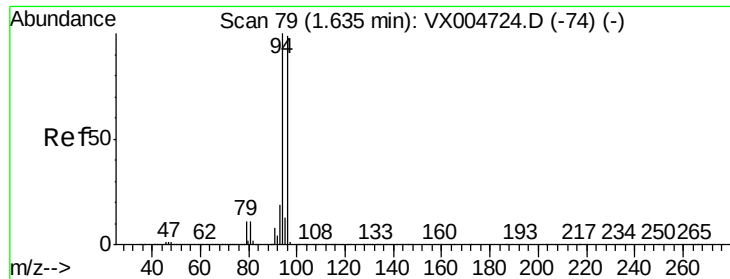
200

0

1.20 1.25

Time-->





#5

Bromomethane

Concen: 0.272 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005150.D

Acq: 09 Oct 2018 02:16

Instrument :

MSVOA_X

ClientSampleId :

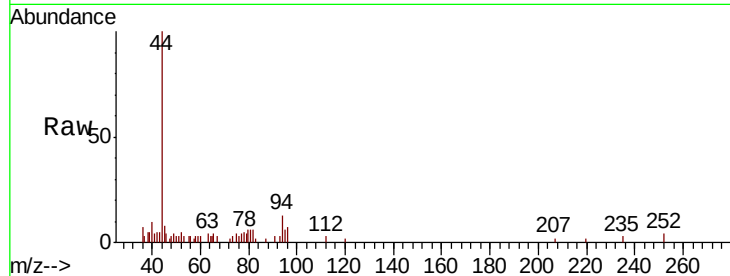
TT-101D-20180928DL

Tot Ion: 94 Resp: 484

Ion Ratio Lower Upper

94 100

96 36.5 79.5 119.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

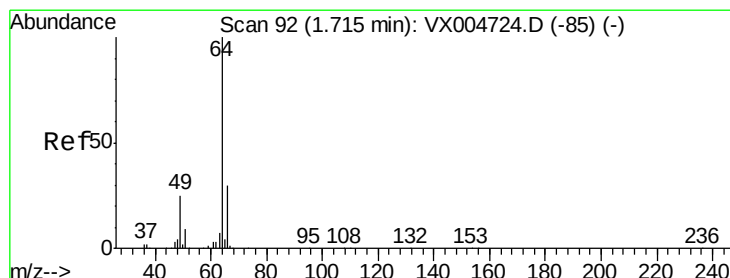
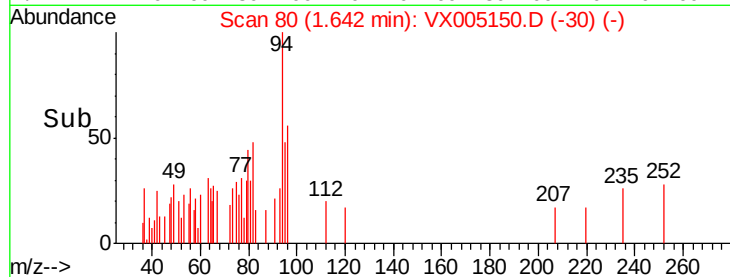
200

100

0

1.60 1.62 1.64 1.66 1.68

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 86

Delta R.T. -0.04 min

Lab File: VX005150.D

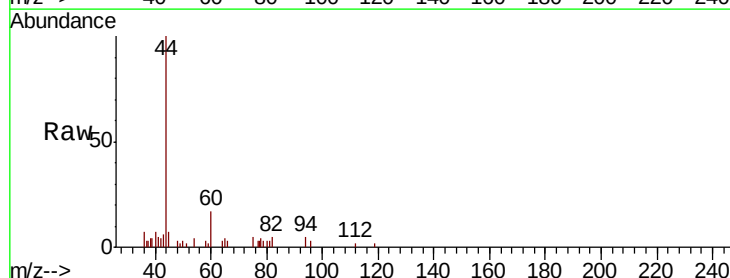
Acq: 09 Oct 2018 02:16

Tgt Ion: 64 Resp: 77

Ion Ratio Lower Upper

64 100

66 100.0 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

100

80

60

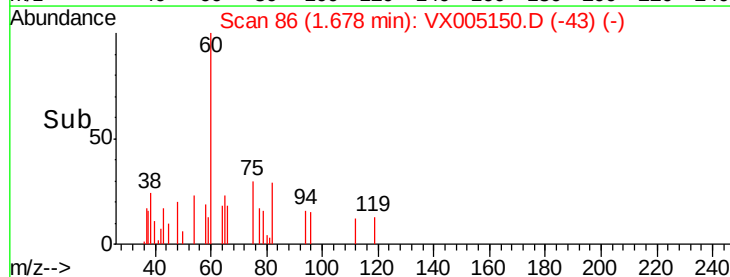
40

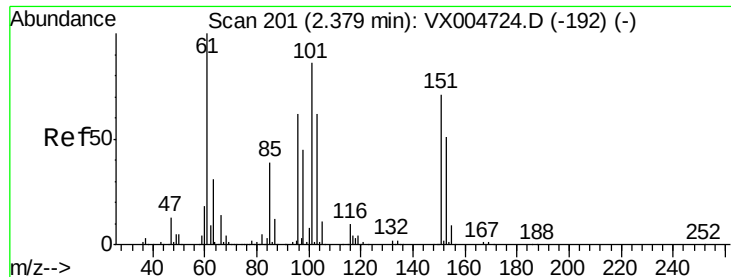
20

0

1.66 1.68 1.70

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.275 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.00 min

Lab File: VX005150.D

Acq: 09 Oct 2018 02:16

Instrument :

MSVOA_X

ClientSampleId :

TT-101D-20180928DL

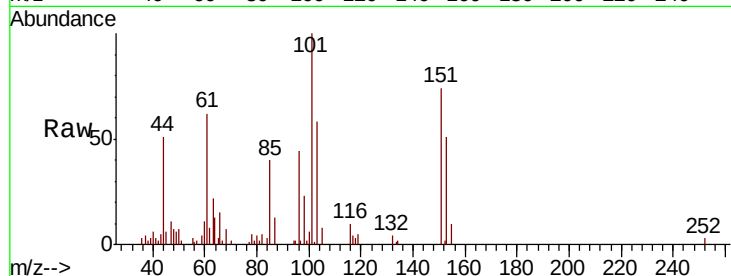
Tot Ion:101 Resp: 6930

Ion Ratio Lower Upper

101 100

85 45.9 35.9 53.9

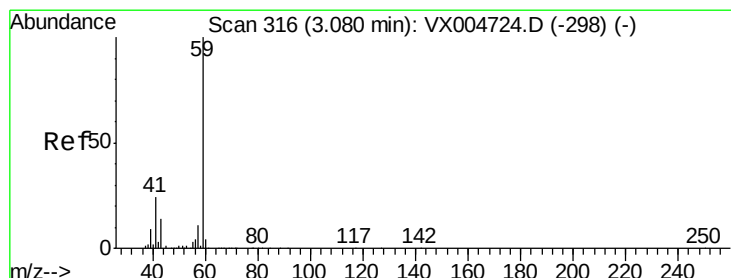
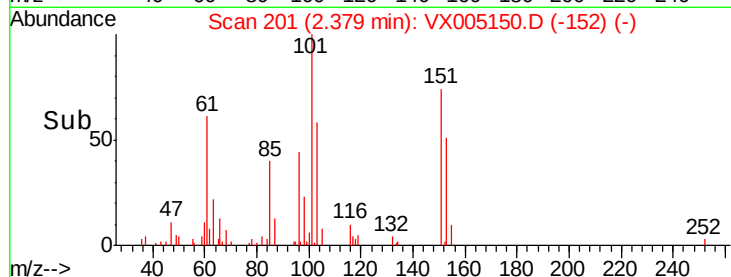
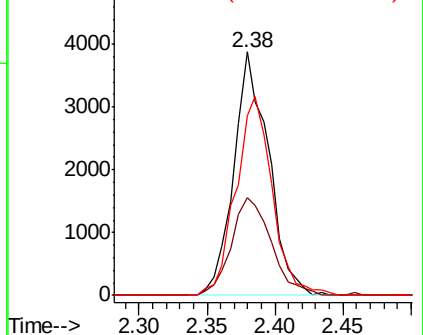
151 85.4 66.6 100.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 3.433 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX005150.D

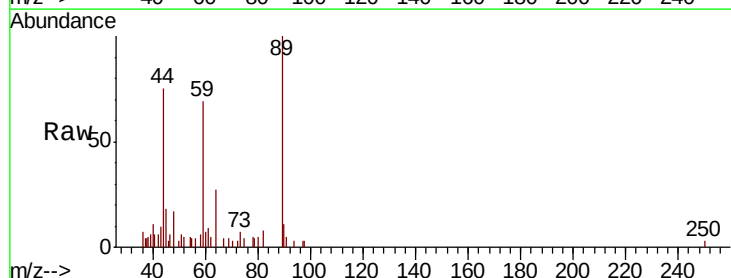
Acq: 09 Oct 2018 02:16

Tgt Ion: 59 Resp: 2652

Ion Ratio Lower Upper

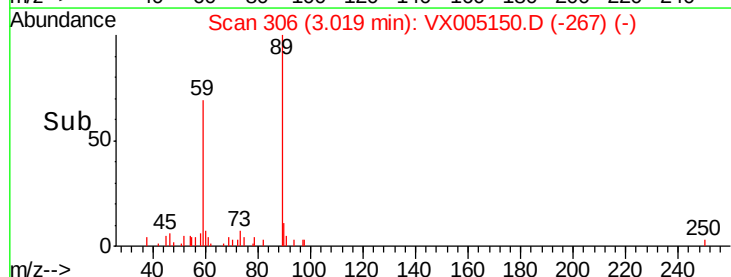
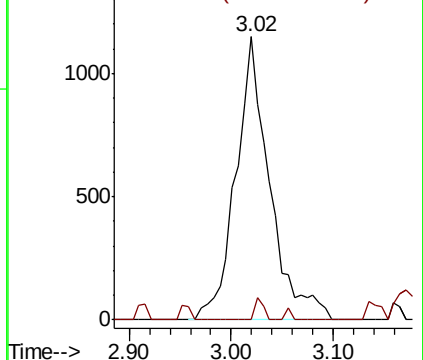
59 100

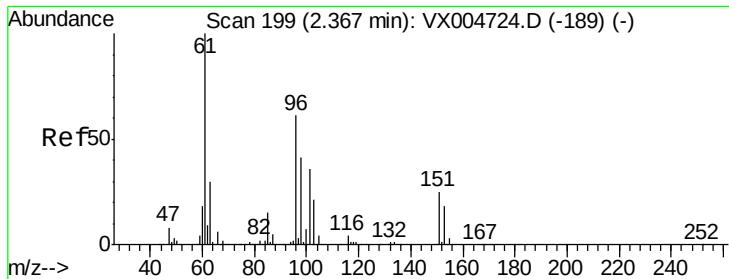
57 2.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 1.451 ug/l

RT: 2.37 min Scan# 200

Delta R.T. 0.01 min

Lab File: VX005150.D

Acq: 09 Oct 2018 02:16

Instrument :

MSVOA_X

ClientSampleId :

TT-101D-20180928DL

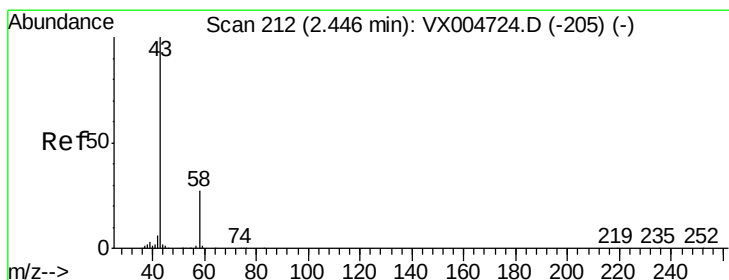
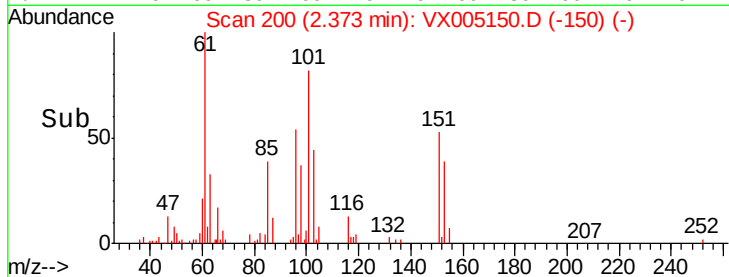
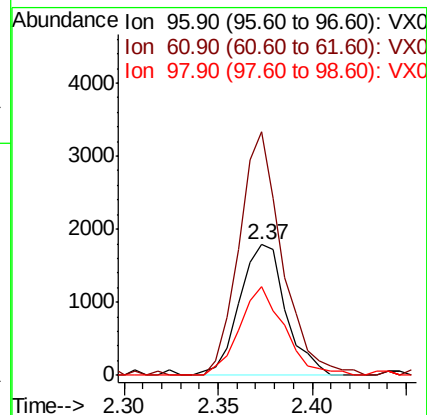
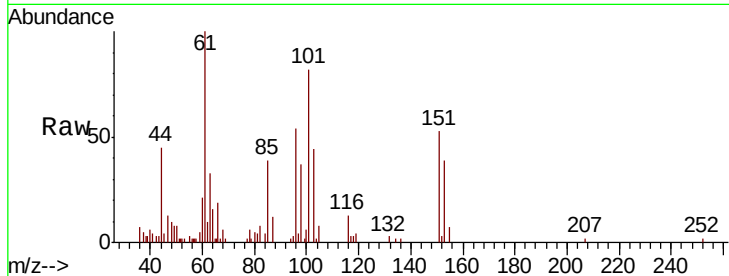
Tot Ion: 96 Resp: 3042

Ion Ratio Lower Upper

96 100

61 186.5 130.2 195.4

98 68.3 53.4 80.0



#16

Acetone

Concen: 1.188 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005150.D

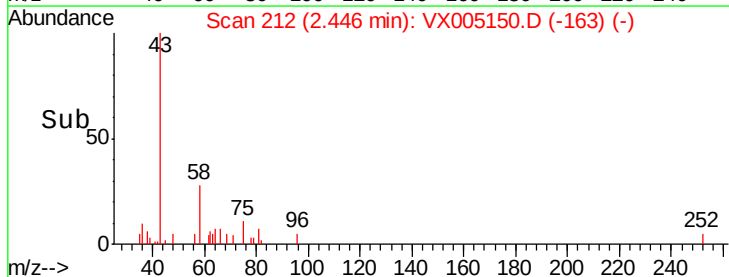
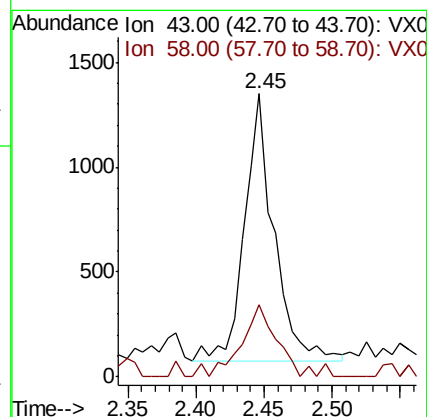
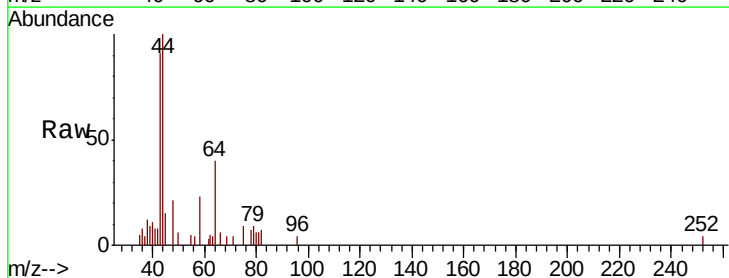
Acq: 09 Oct 2018 02:16

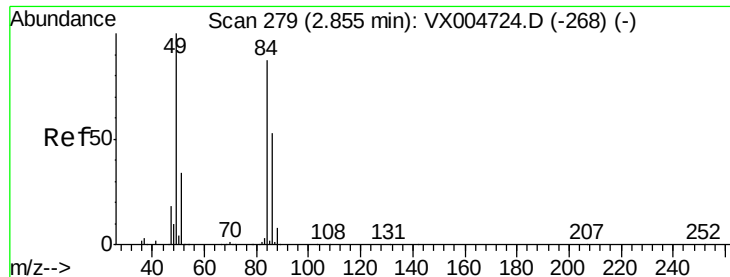
Tgt Ion: 43 Resp: 1916

Ion Ratio Lower Upper

43 100

58 27.0 21.8 32.6

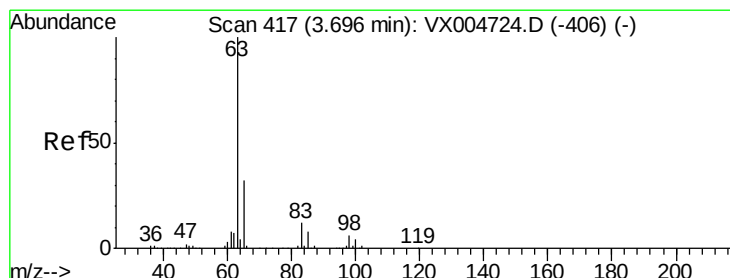
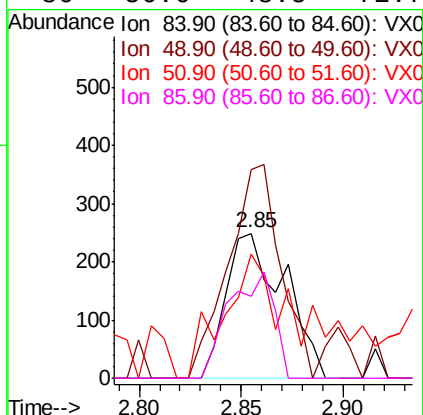
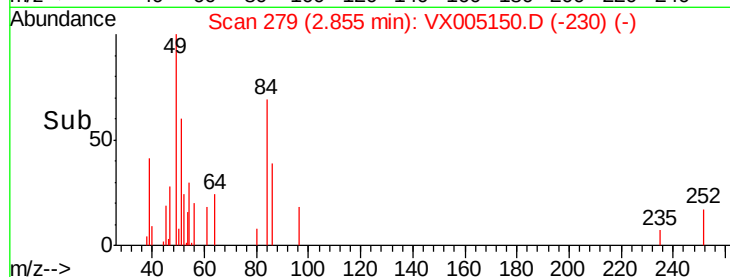
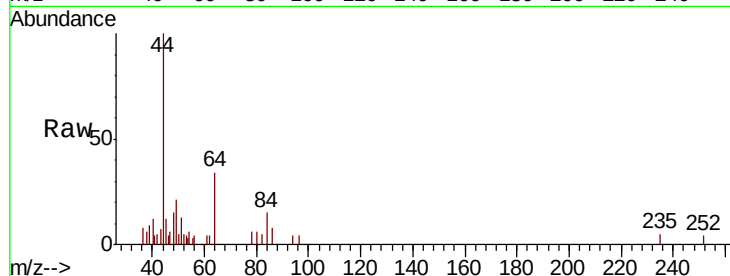




#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX005150.D
Acq: 09 Oct 2018 02:16

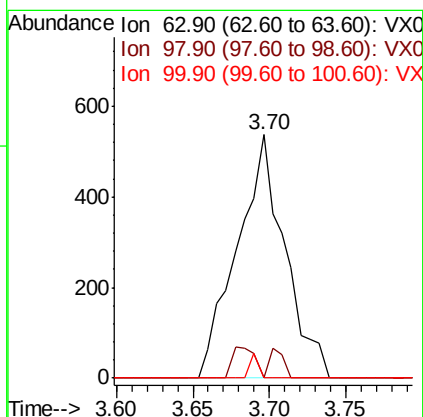
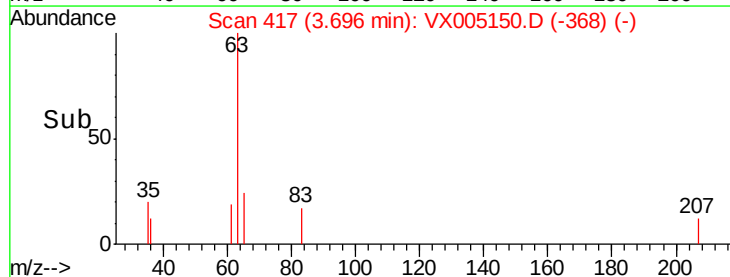
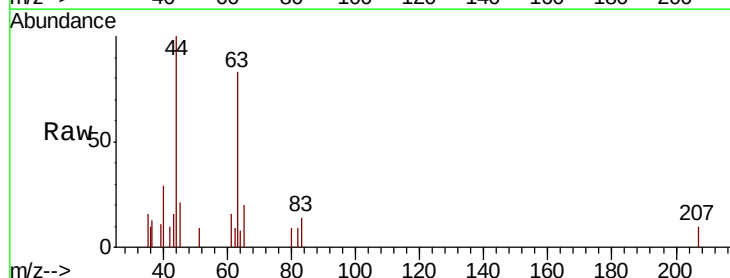
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TT-101D-20180928DL

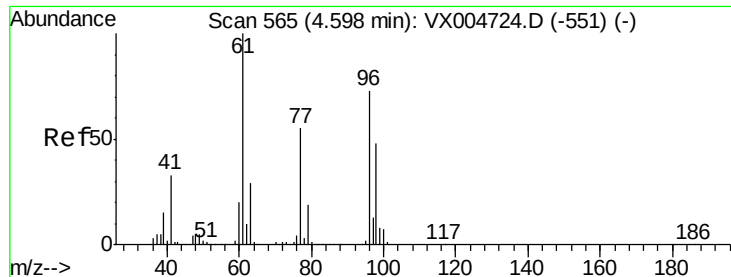
Tot Ion: 84 Resp: 494
Ion Ratio Lower Upper
84 100
49 144.2 92.3 138.5#
51 85.9 31.8 47.6#
86 56.6 48.5 72.7



#24
1,1-Dichloroethane
Concen: 0.252 ug/l
RT: 3.70 min Scan# 417
Delta R.T. 0.00 min
Lab File: VX005150.D
Acq: 09 Oct 2018 02:16

Tgt Ion: 63 Resp: 1159
Ion Ratio Lower Upper
63 100
98 0.0 3.0 9.2#
100 0.0 2.0 5.8#



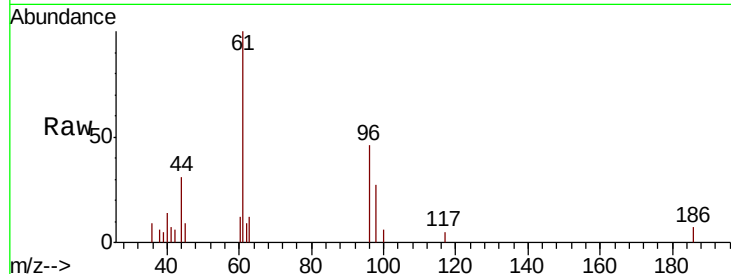


#27

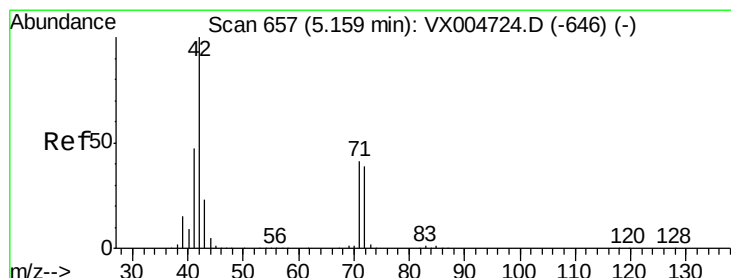
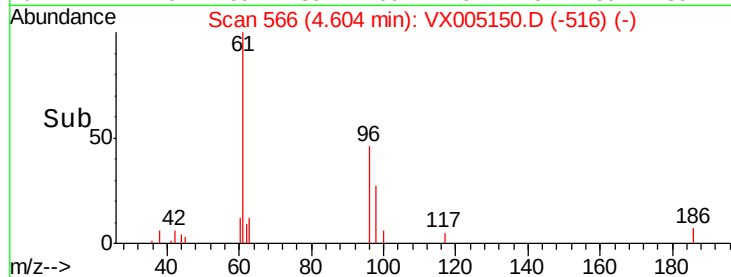
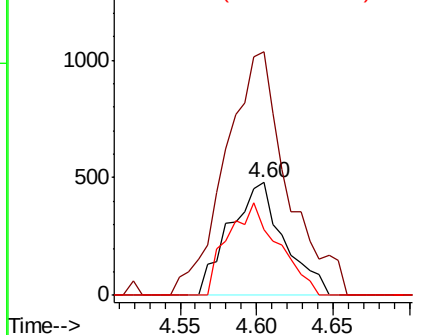
cis-1,2-Dichloroethene
 Concen: 0.463 ug/l
 RT: 4.60 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VX005150.D
 Acq: 09 Oct 2018 02:16

Instrument :
 MSVOA_X
 ClientSampleID :
 TT-101D-20180928DL

Tot Ion: 96 Resp: 1186
 Ion Ratio Lower Upper
 96 100
 61 245.8 0.0 285.8
 98 76.1 0.0 136.2



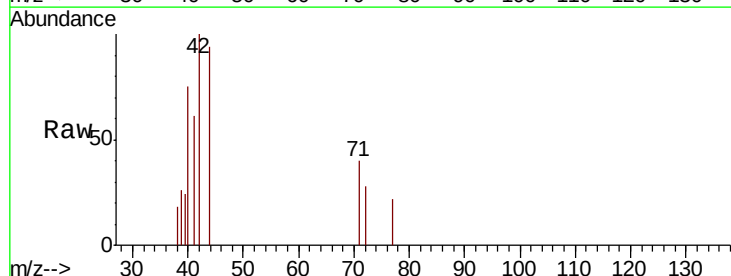
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



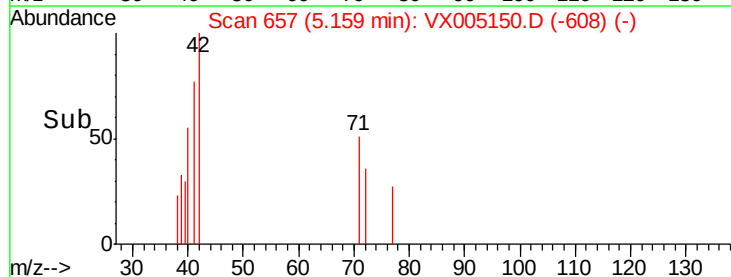
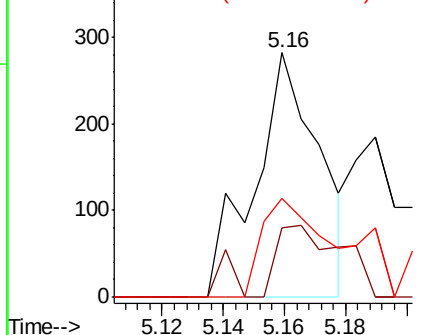
#29

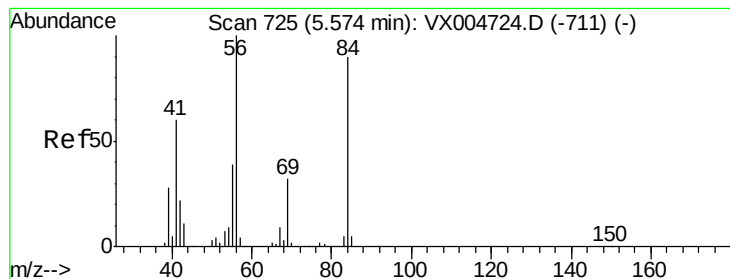
Tetrahydrofuran
 Concen: 0.281 ug/l
 RT: 5.16 min Scan# 657
 Delta R.T. 0.00 min
 Lab File: VX005150.D
 Acq: 09 Oct 2018 02:16

Tgt Ion: 42 Resp: 416
 Ion Ratio Lower Upper
 42 100
 72 29.3 33.7 50.5#
 71 53.6 32.2 48.4#



Abundance Ion 42.00 (41.70 to 42.70): VX0
 Ion 72.00 (71.70 to 72.70): VX0
 Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.075 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.10 min

Lab File: VX005150.D

Acq: 09 Oct 2018 02:16

Instrument :

MSVOA_X

ClientSampleId :

TT-101D-20180928DL

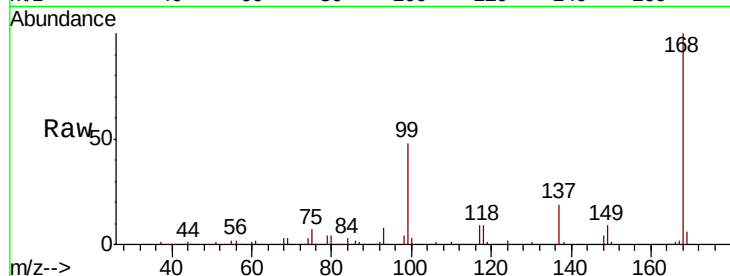
Tot Ion: 56 Resp: 3778

Ion Ratio Lower Upper

56 100

69 148.1 25.9 38.9#

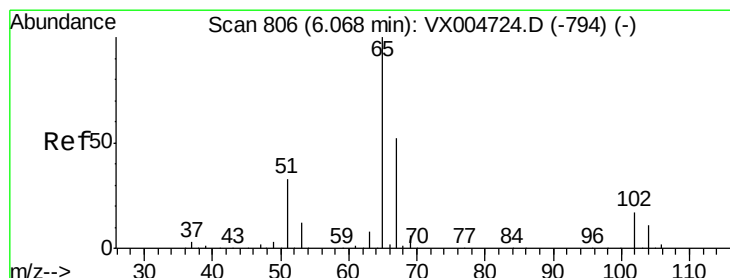
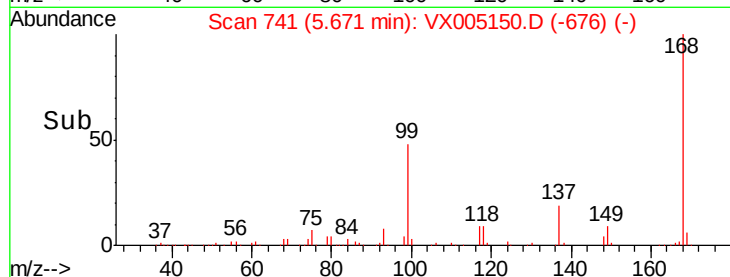
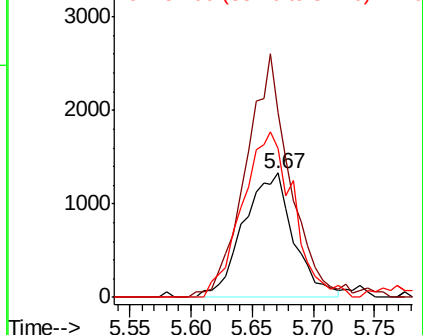
84 119.2 71.9 107.9#



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: 51.323 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX005150.D

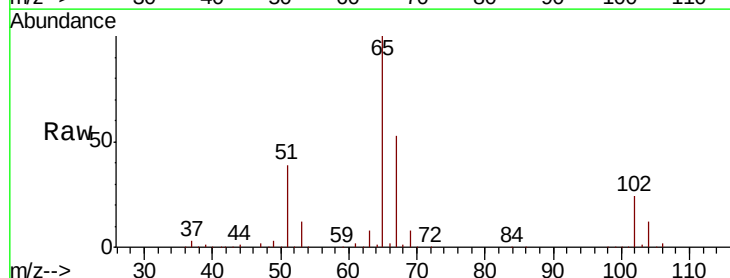
Acq: 09 Oct 2018 02:16

Tgt Ion: 65 Resp: 141814

Ion Ratio Lower Upper

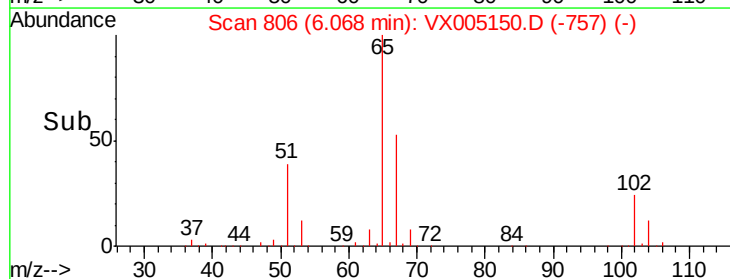
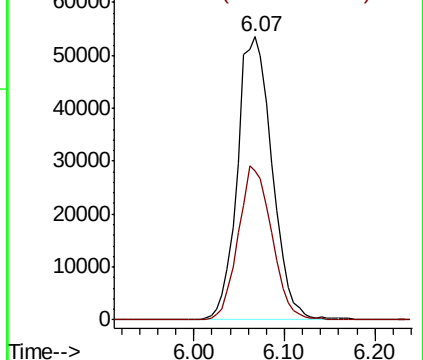
65 100

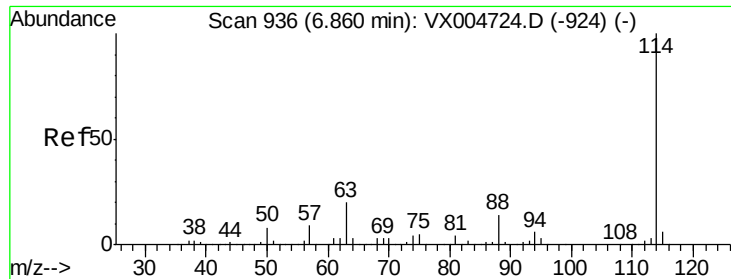
67 53.0 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

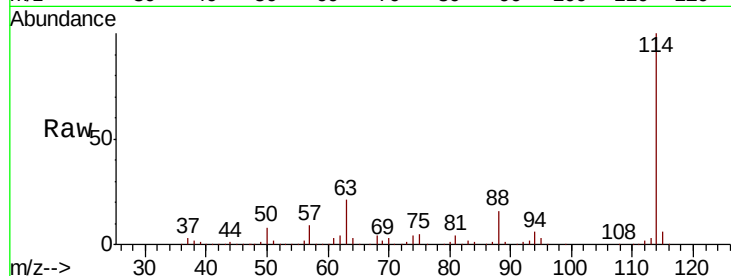




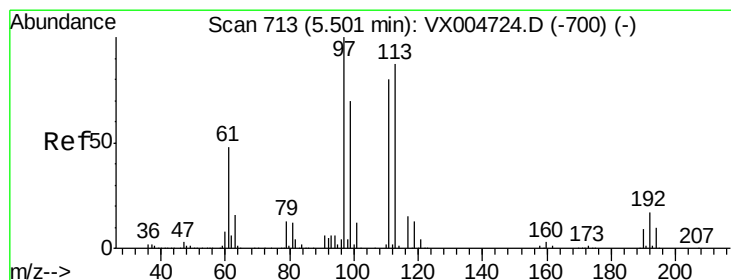
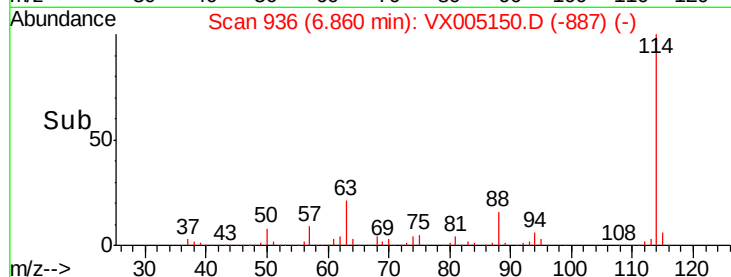
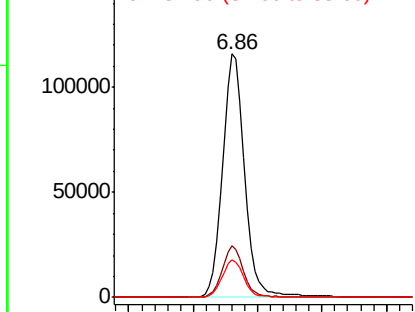
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX005150.D
 Acq: 09 Oct 2018 02:16

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-101D-20180928DL

Tot Ion:114 Resp: 282019
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 39.8
 88 15.6 0.0 27.0

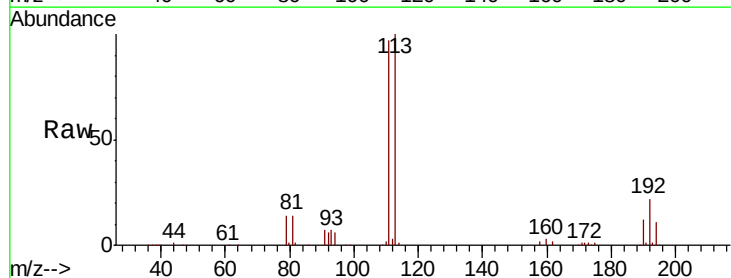


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

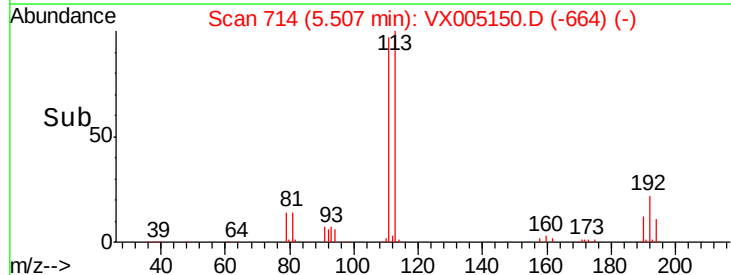
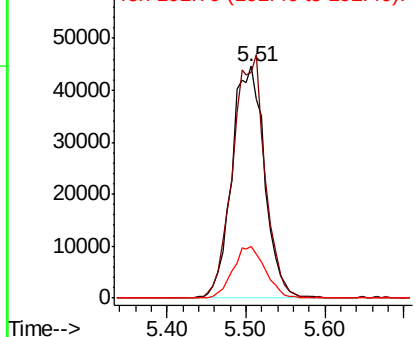


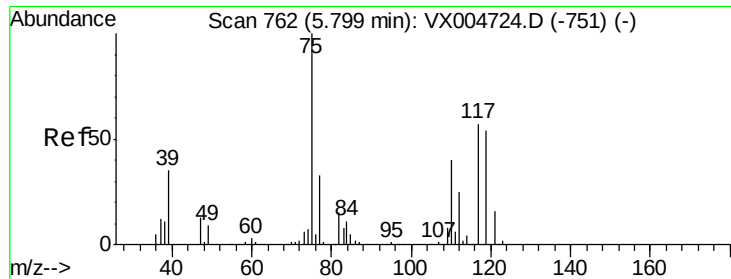
#35
 Dibromofluoromethane
 Concen: 53.967 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX005150.D
 Acq: 09 Oct 2018 02:16

Tgt Ion:113 Resp: 128989
 Ion Ratio Lower Upper
 113 100
 111 102.4 77.0 115.4
 192 22.1 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

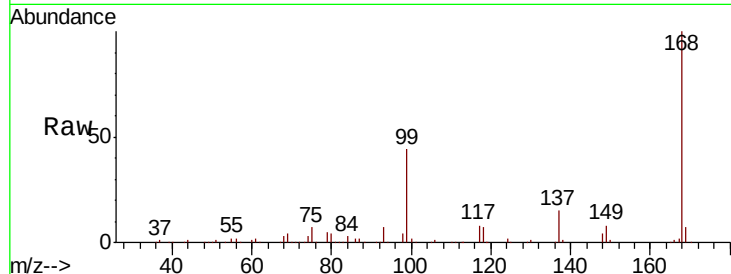




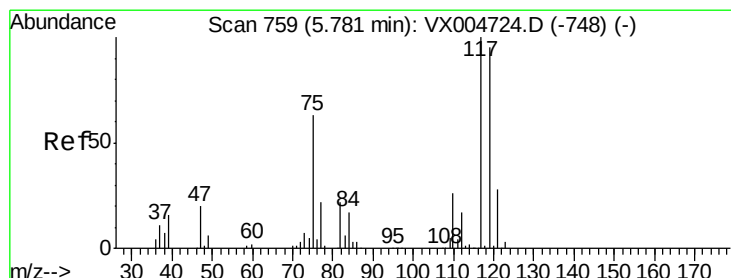
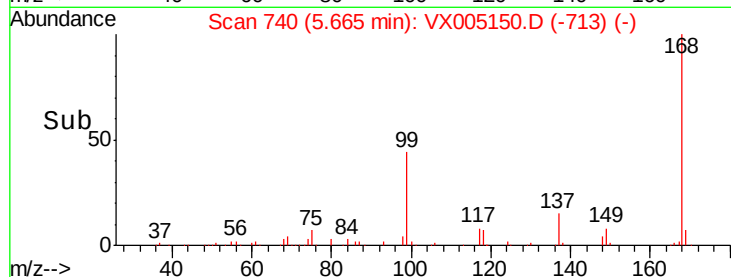
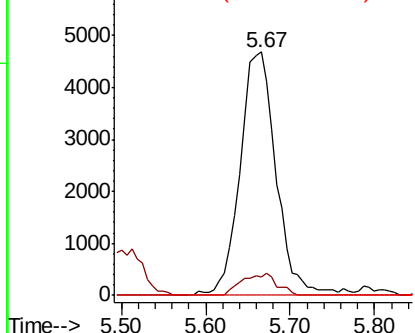
#36
 1,1-Dichloropropene
 Concen: 4.135 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005150.D
 Acq: 09 Oct 2018 02:16

Instrument :
 MSVOA_X
 ClientSampleId :
 TT-101D-20180928DL

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.8	20.0	59.9#
77	0.0	27.1	40.7#

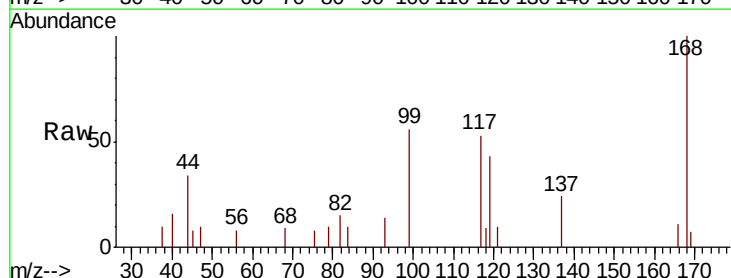


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

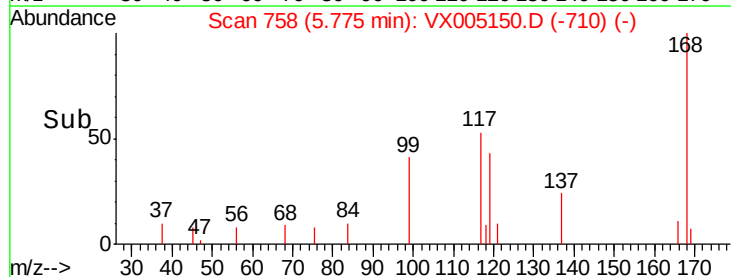
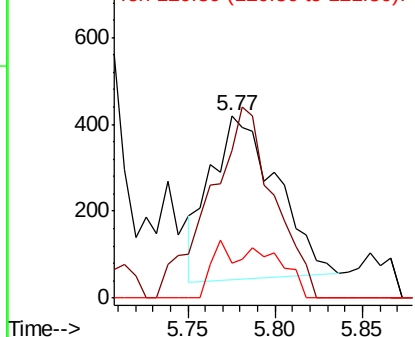


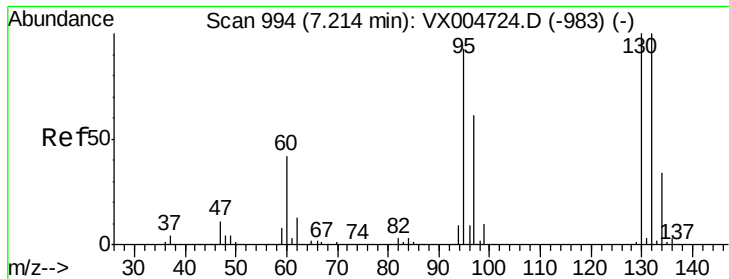
#38
 Carbon Tetrachloride
 Concen: 0.289 ug/l
 RT: 5.77 min Scan# 758
 Delta R.T. -0.01 min
 Lab File: VX005150.D
 Acq: 09 Oct 2018 02:16

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.7	75.2	112.8
121	21.7	22.5	33.7#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 43.157 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX005150.D

Acq: 09 Oct 2018 02:16

Instrument :

MSVOA_X

ClientSampleId :

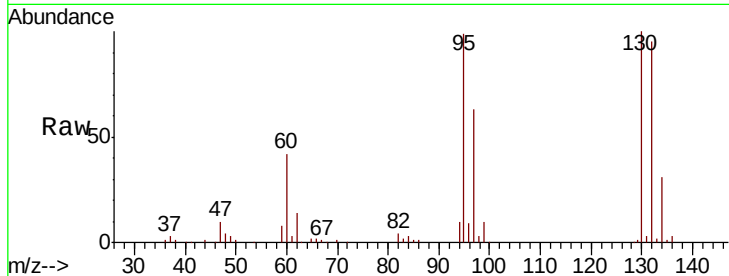
TT-101D-20180928DL

Tot Ion:130 Resp: 108315

Ion Ratio Lower Upper

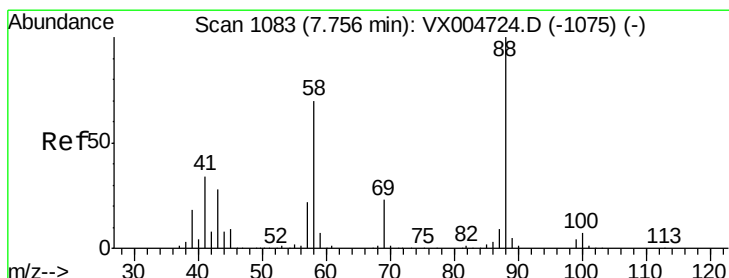
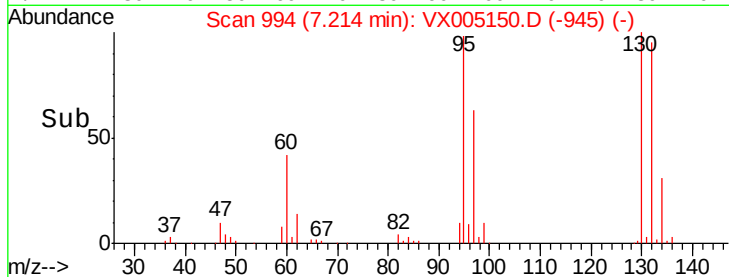
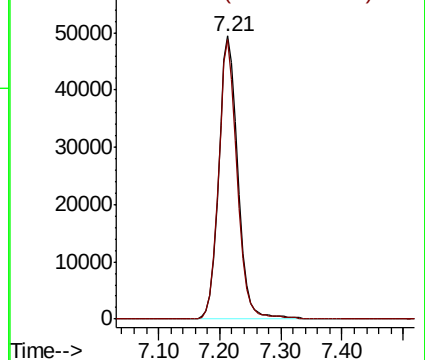
130 100

95 98.6 0.0 186.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 3.208 ug/l

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX005150.D

Acq: 09 Oct 2018 02:16

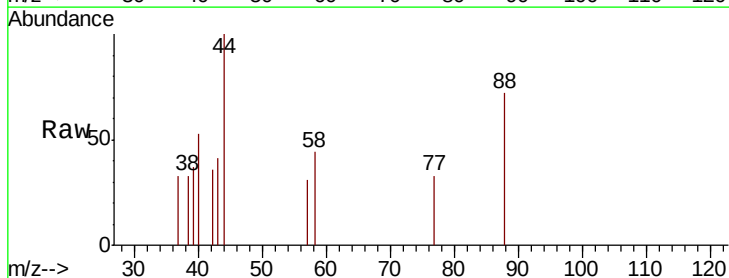
Tgt Ion: 88 Resp: 226

Ion Ratio Lower Upper

88 100

43 52.7 25.1 37.7#

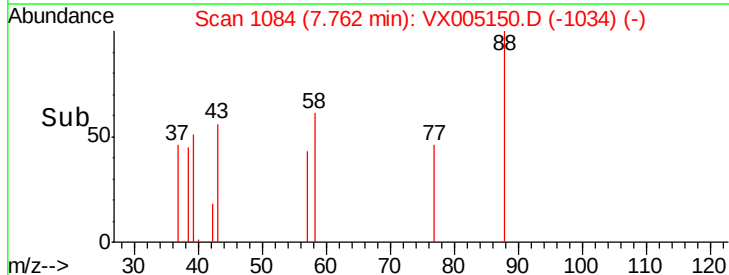
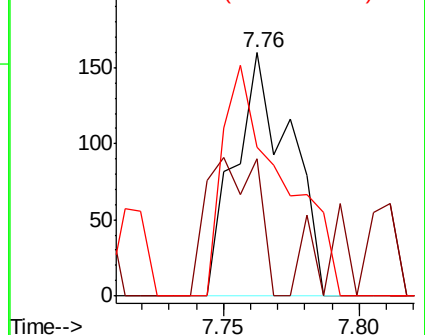
58 102.7 56.2 84.2#

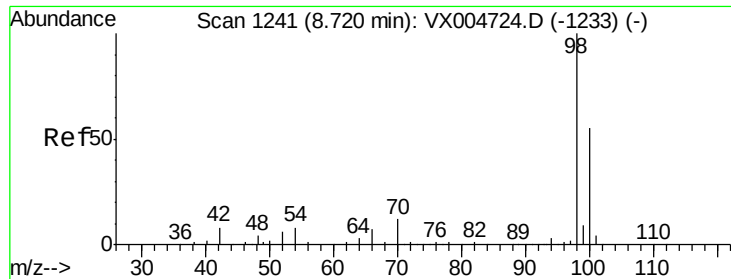


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

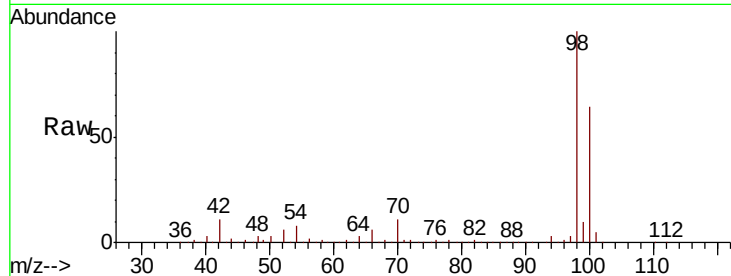




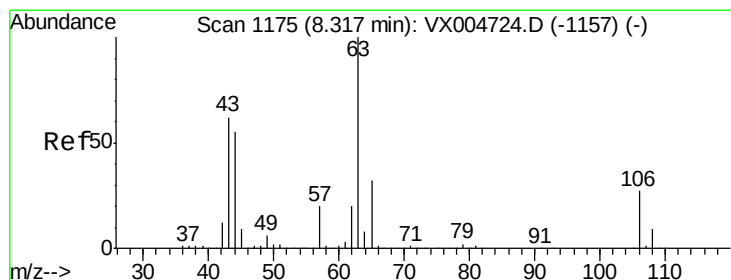
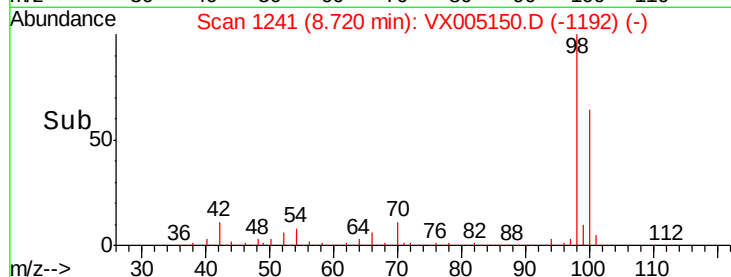
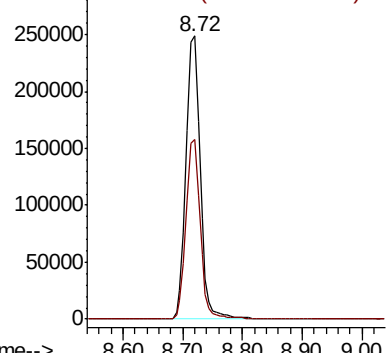
#50
Toluene-d8
Concen: 51.707 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VX005150.D
Acq: 09 Oct 2018 02:16

Instrument :
MSVOA_X
ClientSampleId :
TT-101D-20180928DL

Tot Ion: 98 Resp: 410868
Ion Ratio Lower Upper
98 100
100 63.2 51.9 77.9

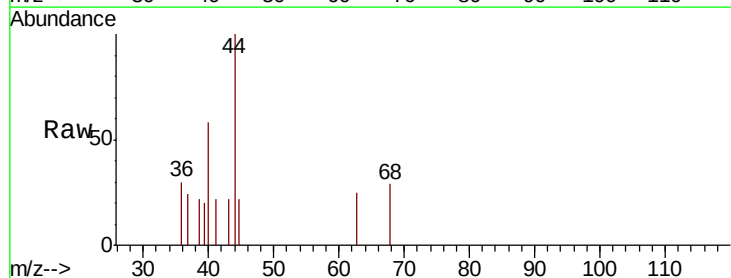


Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V

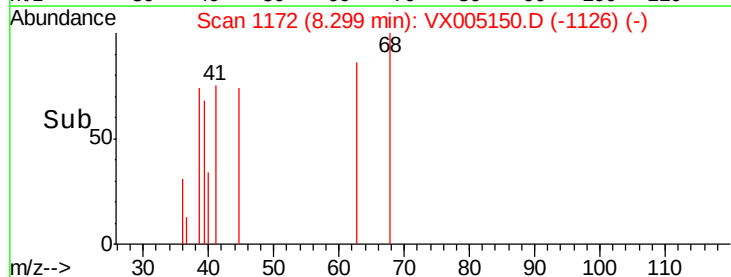
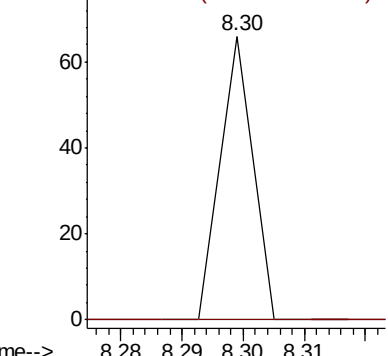


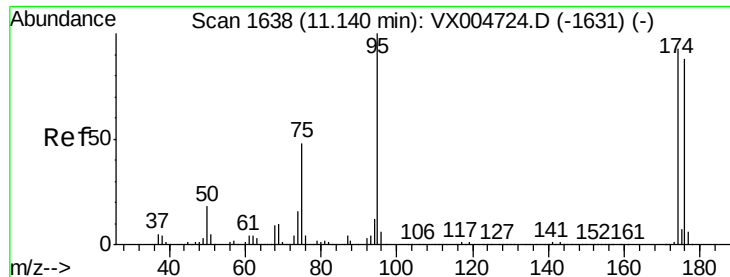
#58
2-Chloroethyl Vinyl ether
Concen: 14.253 ug/l
RT: 8.30 min Scan# 1172
Delta R.T. -0.02 min
Lab File: VX005150.D
Acq: 09 Oct 2018 02:16

Tgt Ion: 63 Resp: 24
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





#62

4-Bromofluorobenzene

Concen: 49.998 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005150.D

Acq: 09 Oct 2018 02:16

Instrument :

MSVOA_X

ClientSampleId :

TT-101D-20180928DL

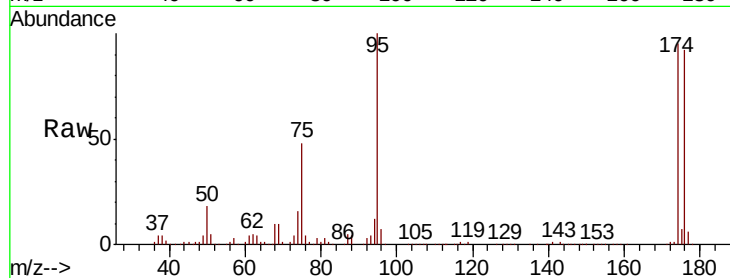
Tot Ion: 95 Resp: 143125

Ion Ratio Lower Upper

95 100

174 93.8 0.0 185.0

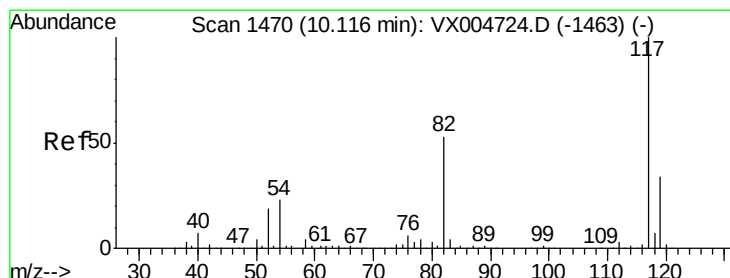
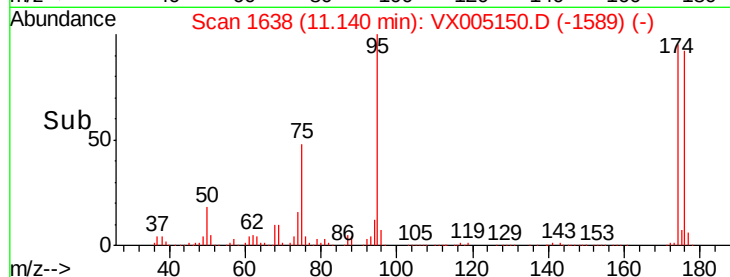
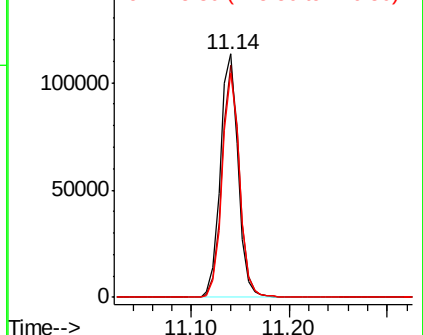
176 90.1 0.0 180.2



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: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX005150.D

Acq: 09 Oct 2018 02:16

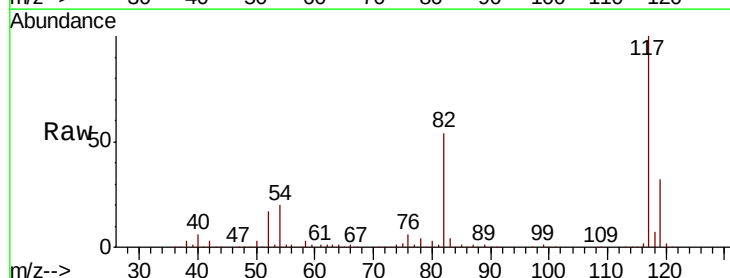
Tgt Ion: 117 Resp: 277701

Ion Ratio Lower Upper

117 100

82 54.5 42.2 63.4

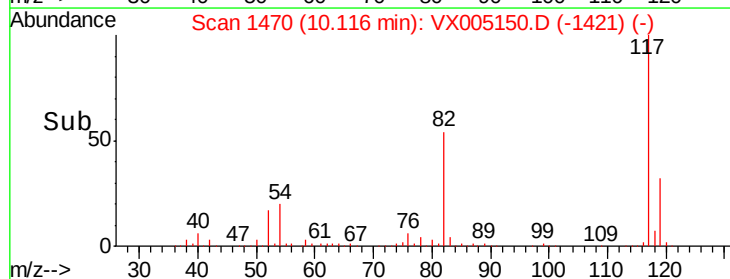
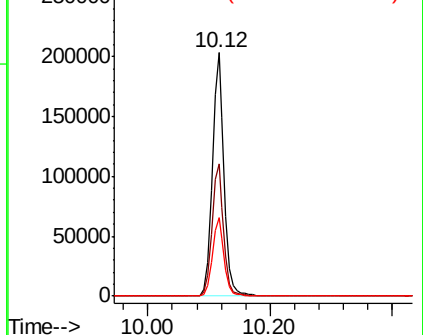
119 32.3 27.4 41.0

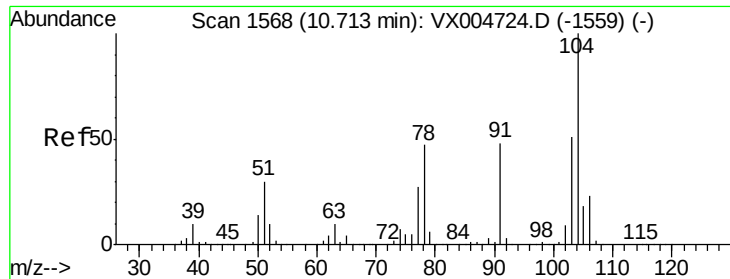


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#70

Stvrene

Concen: 2.143 ug/l

RT: 10.72 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VX005150.D

Acq: 09 Oct 2018 02:16

Instrument :

MSVOA_X

ClientSampleId :

TT-101D-20180928DL

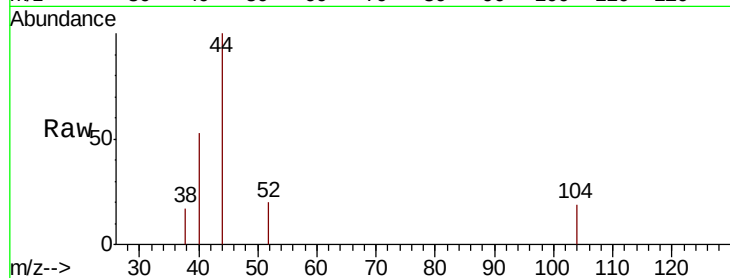
Tot Ion:104 Resp: 21

Ion Ratio Lower Upper

104 100

78 0.0 40.0 60.0#

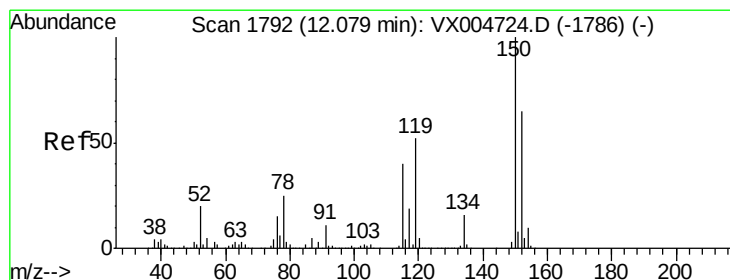
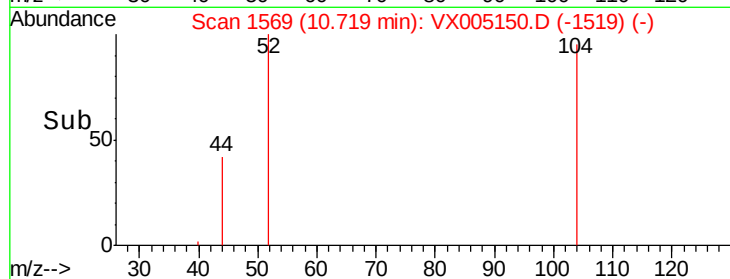
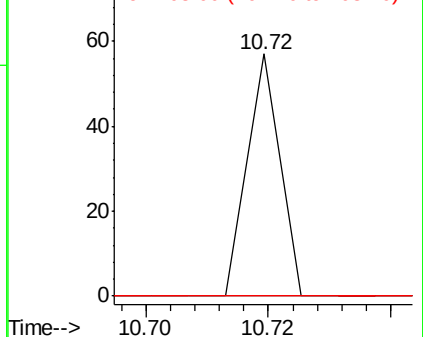
103 0.0 44.3 66.5#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX005150.D

Acq: 09 Oct 2018 02:16

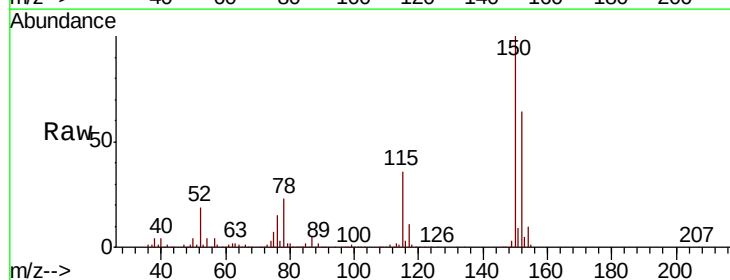
Tgt Ion:152 Resp: 152025

Ion Ratio Lower Upper

152 100

115 54.8 40.2 120.6

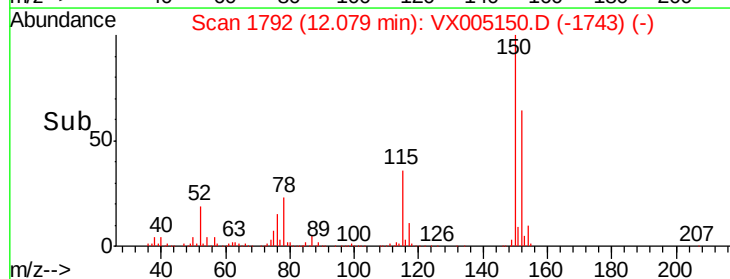
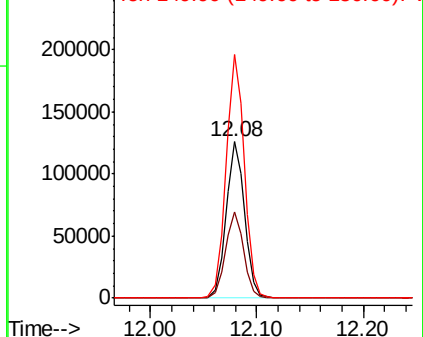
150 155.2 0.0 351.0

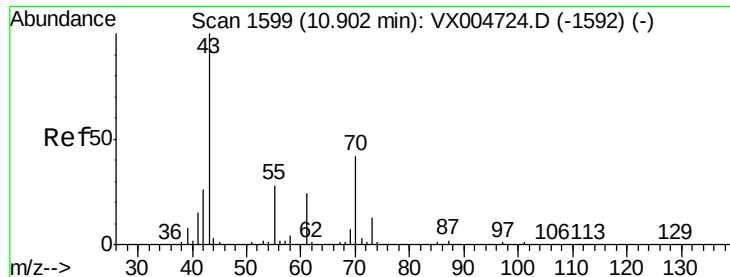


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.759 ug/l

RT: 10.92 min Scan# 1602

Delta R.T. 0.02 min

Lab File: VX005150.D

Acq: 09 Oct 2018 02:16

Instrument :

MSVOA_X

ClientSampleId :

TT-101D-20180928DL

Tot Ion: 43 Resp: 62

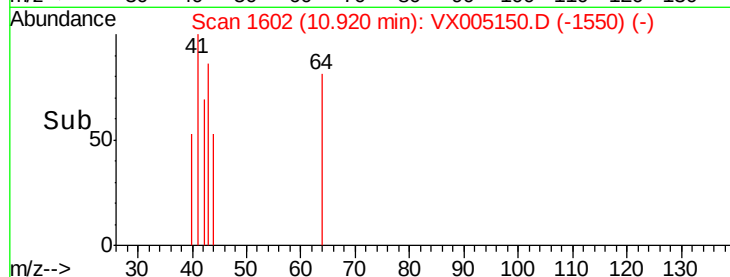
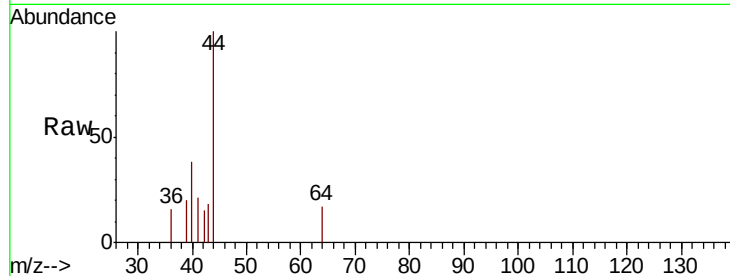
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 37.1 21.6 32.4#

61 0.0 19.1 28.7#

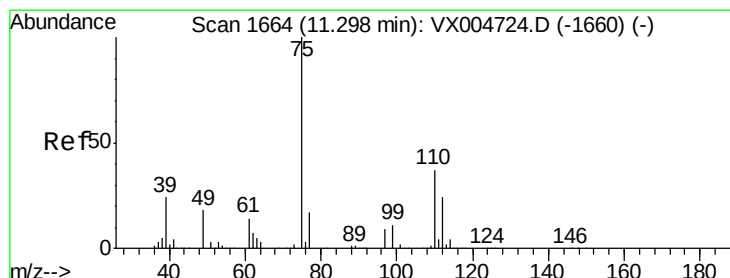
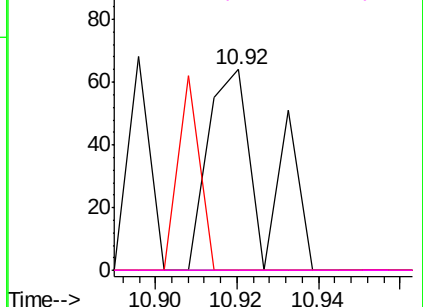


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 20.794 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005150.D

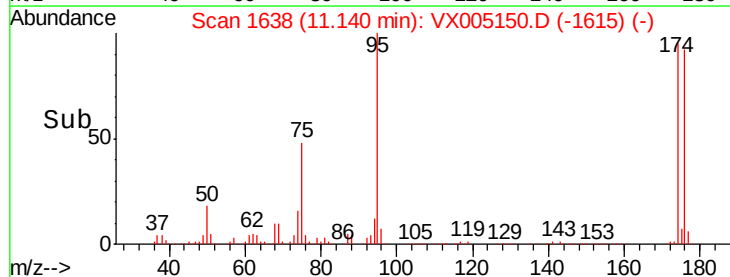
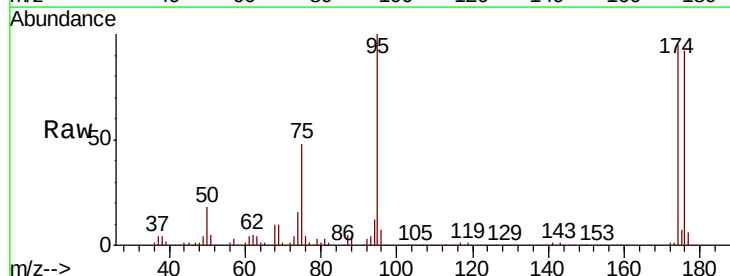
Acq: 09 Oct 2018 02:16

Tgt Ion: 75 Resp: 70853

Ion Ratio Lower Upper

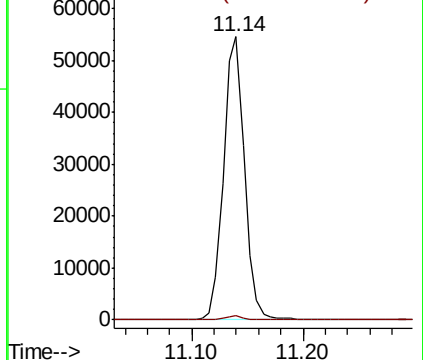
75 100

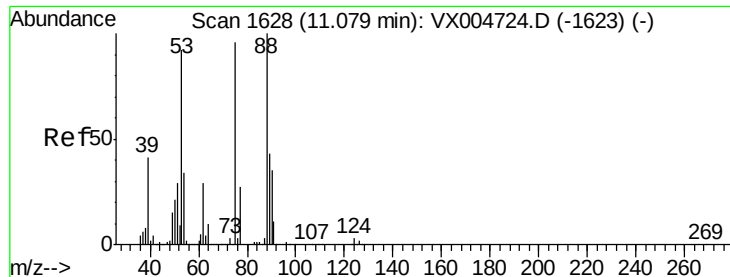
77 1.3 21.4 64.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

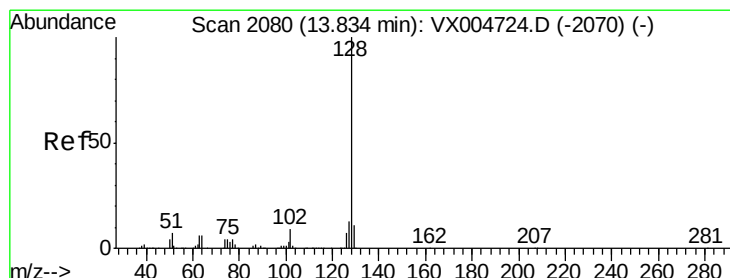
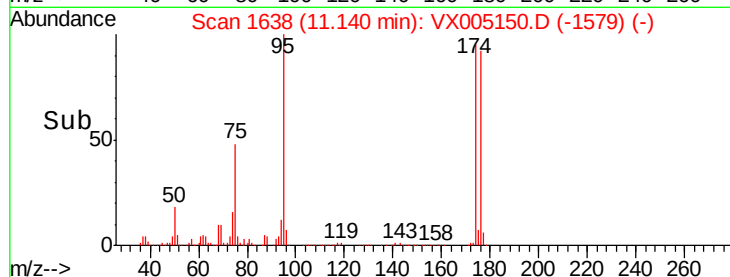
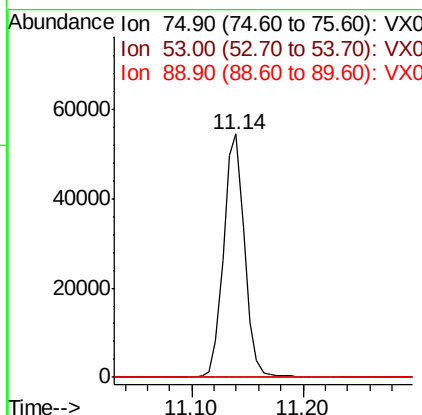
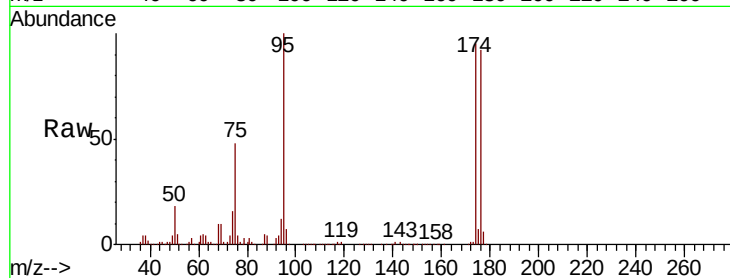




#81
trans-1,4-Dichloro-2-butene
Concen: 56.445 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.06 min
Lab File: VX005150.D
Acq: 09 Oct 2018 02:16

Instrument :
MSVOA_X
ClientSampleId :
TT-101D-20180928DL

Tot Ion: 75 Resp: 70853
Ion Ratio Lower Upper
75 100
53 0.3 80.2 120.4#
89 0.0 37.1 55.7#



#95
Naphthalene
Concen: 0.739 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX005150.D
Acq: 09 Oct 2018 02:16

Tgt Ion:128 Resp: 245
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 8.6 8.7 13.1#

