

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006703.D
 Acq On : 21 Dec 2018 04:15
 Operator : JC/MD
 Sample : J6517-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T2-MW-5-8.0-121918

Quant Time: Dec 21 07:49:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	673055	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1026942	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	936964	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	445874	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	348016	47.98	ug/l	0.00
Spiked Amount			Recovery	=	95.96%	
35) Dibromofluoromethane	5.51	113	299362	46.10	ug/l	0.00
Spiked Amount			Recovery	=	92.20%	
50) Toluene-d8	8.71	98	1198734	48.96	ug/l	0.00
Spiked Amount			Recovery	=	97.92%	
62) 4-Bromofluorobenzene	11.13	95	426878	47.61	ug/l	0.00
Spiked Amount			Recovery	=	95.22%	

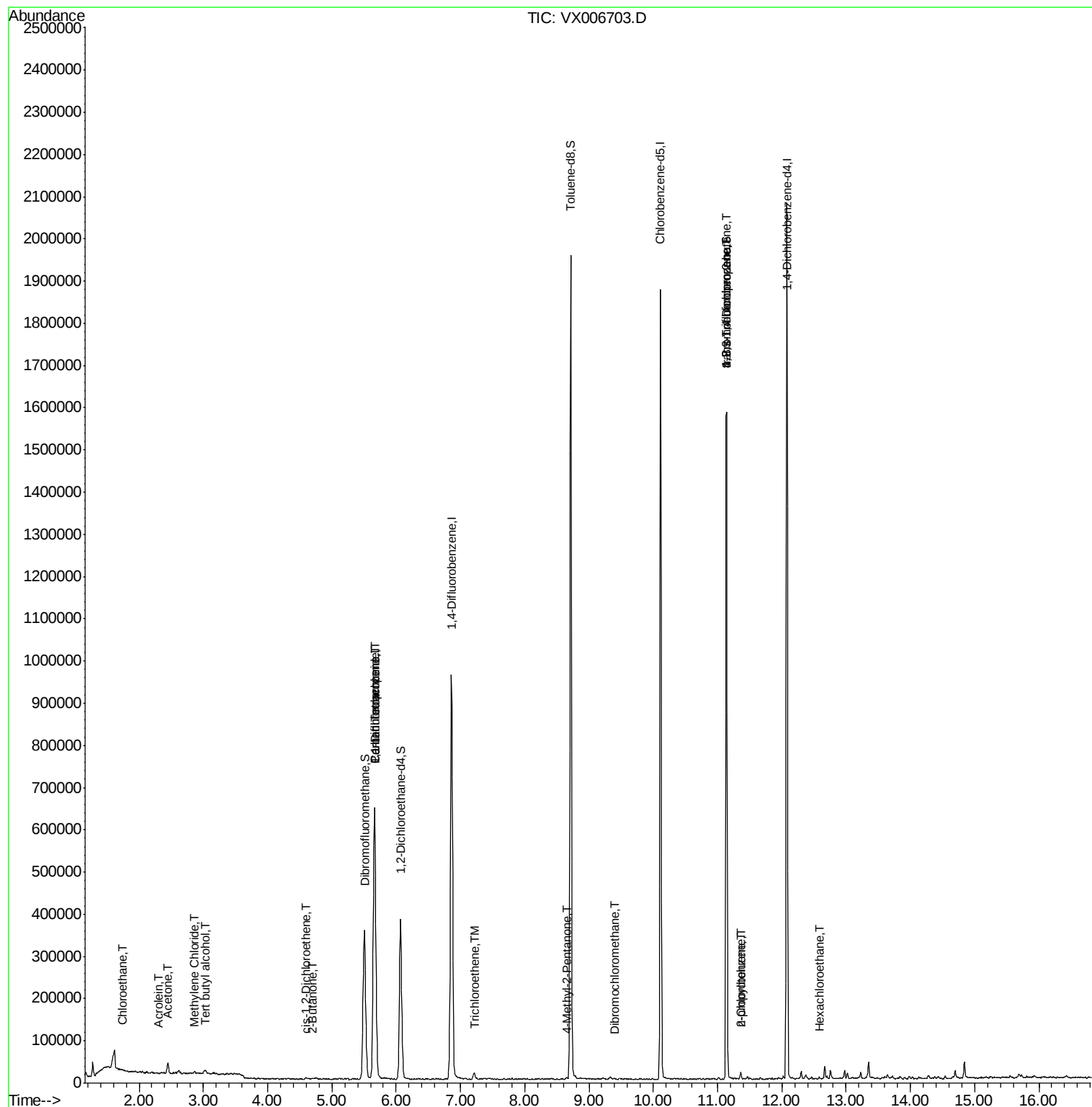
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	342	Below Cal	#	1
6) Chloroethane	1.75	64	2279	0.475	ug/l #	60
11) Tert butyl alcohol	3.03	59	7993	4.937	ug/l #	84
13) Acrolein	2.29	56	238	0.218	ug/l #	13
16) Acetone	2.45	43	26469	7.942	ug/l	98
20) Methylene Chloride	2.86	84	2125	0.308	ug/l #	82
25) 2-Butanone	4.70	43	2259	0.482	ug/l #	78
27) cis-1,2-Dichloroethene	4.60	96	1510	0.205	ug/l	82
28) Bromochloromethane	5.01	49	339	Below Cal	#	21
36) 1,1-Dichloropropene	5.67	75	42178	4.959	ug/l #	49
38) Carbon Tetrachloride	5.67	117	62495	7.561	ug/l #	15
44) Trichloroethene	7.21	130	6196	0.792	ug/l	85
49) 1,4-Dioxane	7.74	88	144	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.65	43	2411	0.281	ug/l #	61
60) Dibromochloromethane	9.40	129	105	2.338	ug/l	56
76) 1,2,3-Trichloropropane	11.13	75	195781	23.627	ug/l #	40
78) n-propylbenzene	11.36	91	10055	0.299	ug/l	99
79) 2-Chlorotoluene	11.36	91	10055	0.494	ug/l #	41
81) trans-1,4-Dichloro-2-buten	11.13	75	195781	70.050	ug/l #	10
90) Hexachloroethane	12.58	117	500	3.403	ug/l #	11

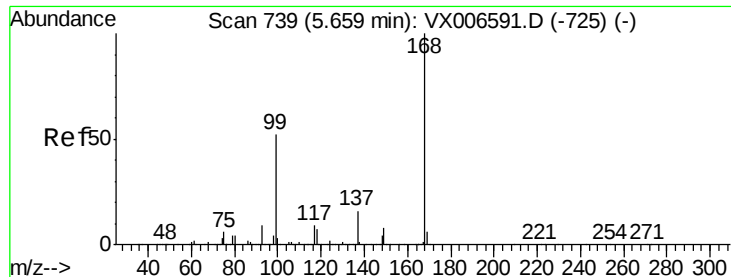
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Dec 19 15:20:58 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: VX006703.D

Acq: 21 Dec 2018 04:15

Instrument :

MSVOA_X

ClientSampleId :

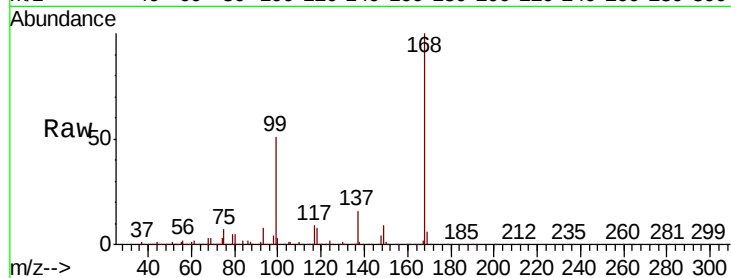
T2-MW-5-8.0-121918

Tot Ion:168 Resp: 673055

Ion Ratio Lower Upper

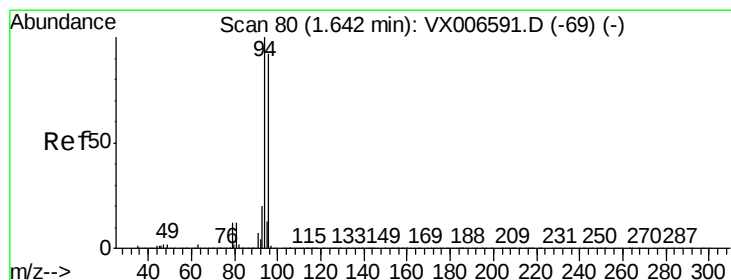
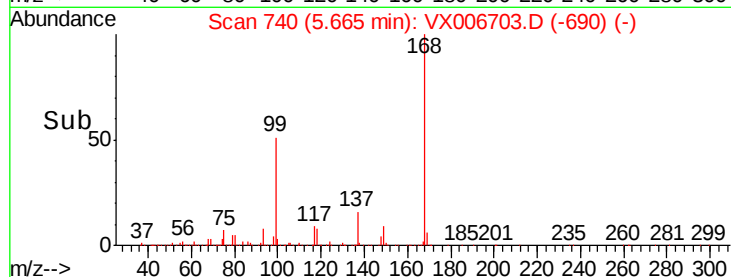
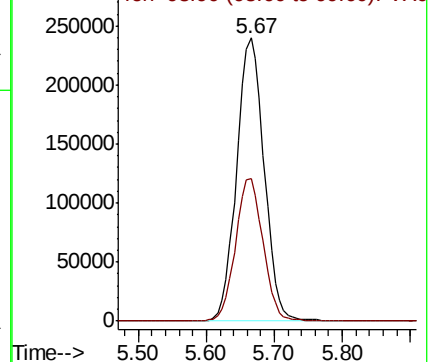
168 100

99 50.5 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006703.D

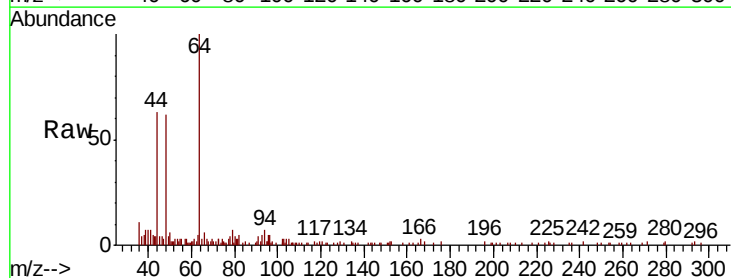
Acq: 21 Dec 2018 04:15

Tgt Ion: 94 Resp: 342

Ion Ratio Lower Upper

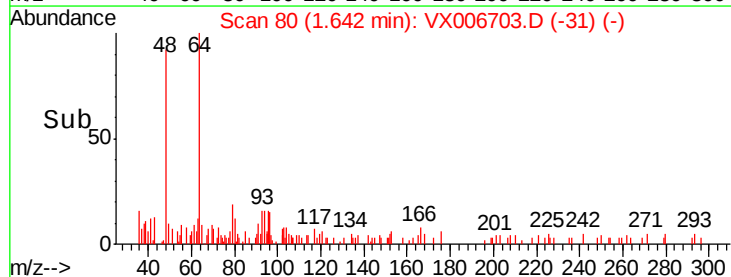
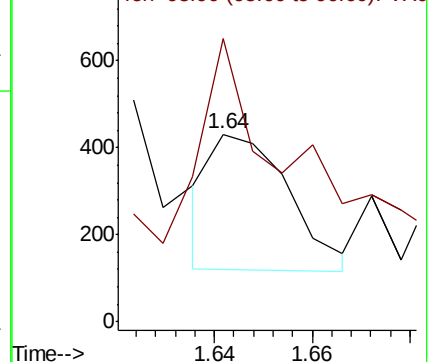
94 100

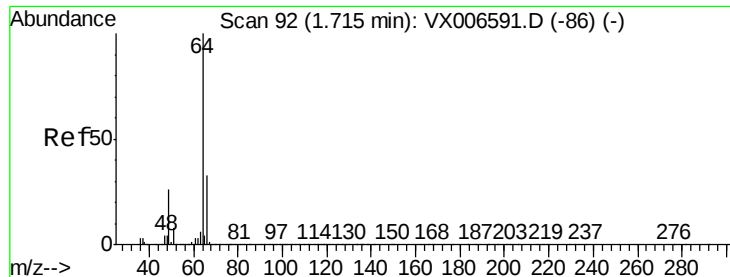
96 223.7 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.475 ug/l

RT: 1.75 min Scan# 97

Delta R.T. 0.03 min

Lab File: VX006703.D

Acq: 21 Dec 2018 04:15

Instrument :

MSVOA_X

ClientSampleId :

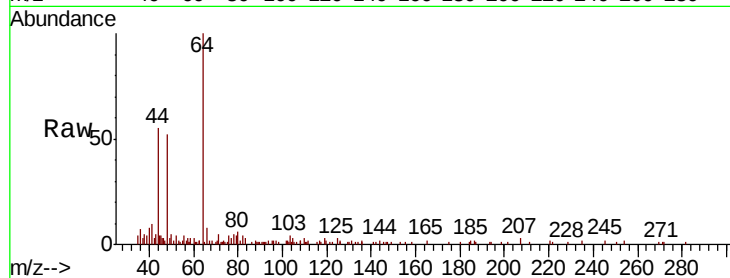
T2-MW-5-8.0-121918

Tot Ion: 64 Resp: 2279

Ion Ratio Lower Upper

64 100

66 10.2 26.4 39.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.75

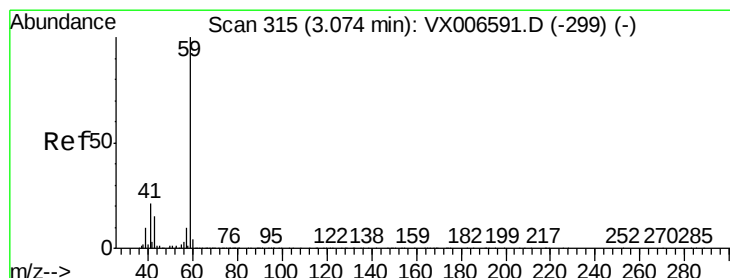
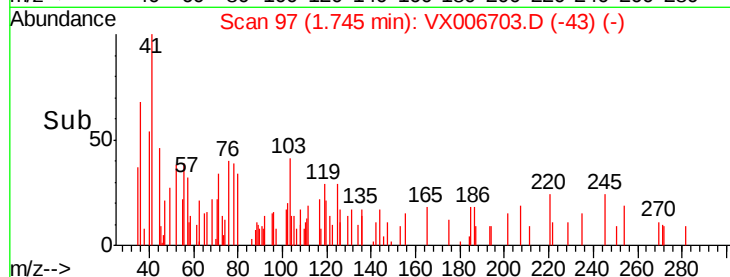
6000

4000

2000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.937 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX006703.D

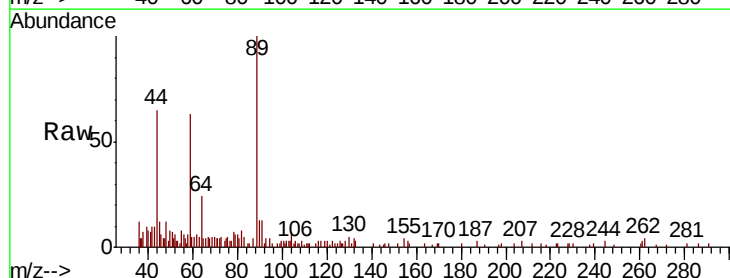
Acq: 21 Dec 2018 04:15

Tgt Ion: 59 Resp: 7993

Ion Ratio Lower Upper

59 100

57 4.7 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3000

2500

2000

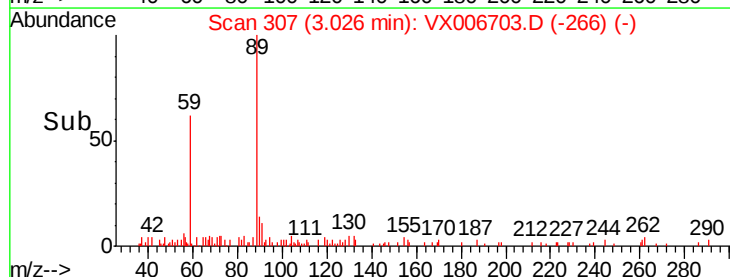
1500

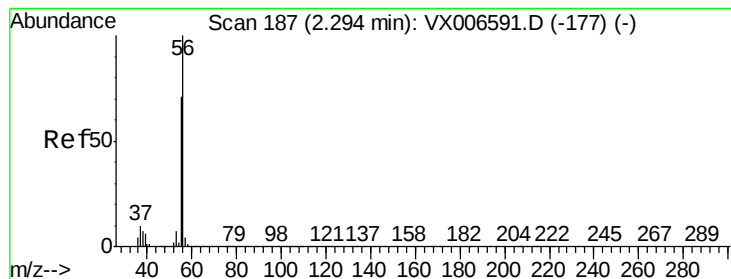
1000

500

0

Time-->





#13

Acrolein

Concen: 0.218 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX006703.D

Acq: 21 Dec 2018 04:15

Instrument :

MSVOA_X

ClientSampleId :

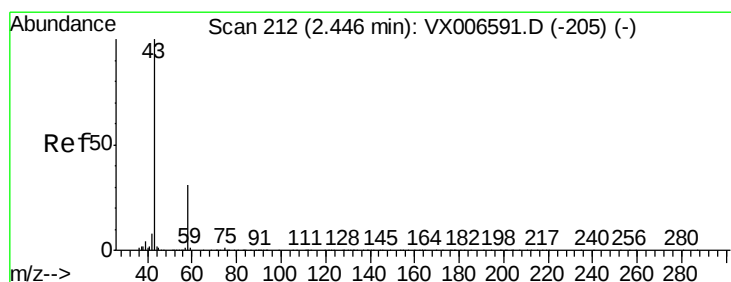
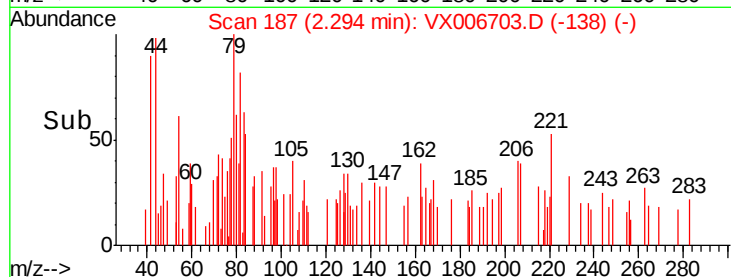
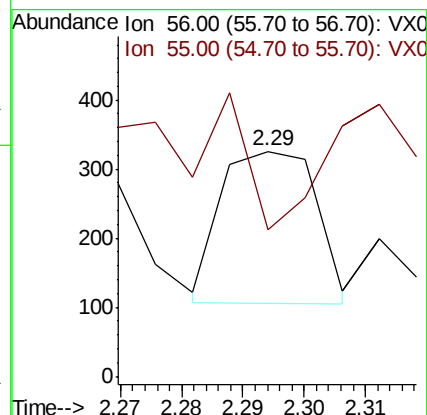
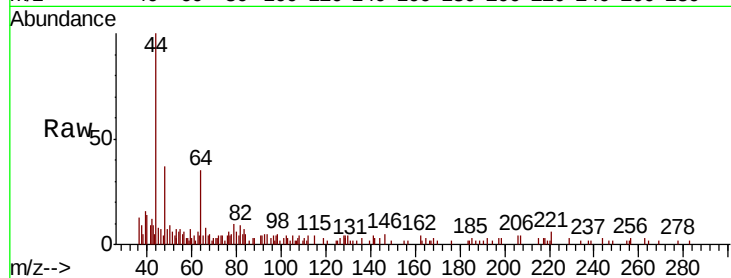
T2-MW-5-8.0-121918

Tot Ion: 56 Resp: 238

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.4#



#16

Acetone

Concen: 7.942 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX006703.D

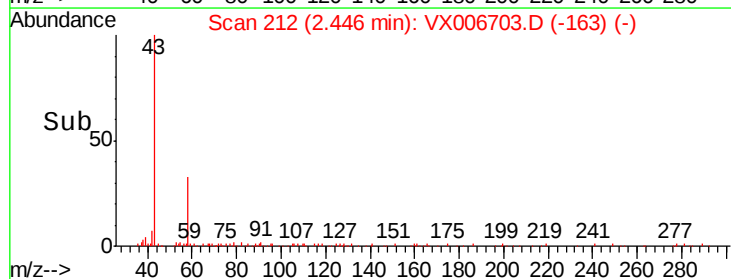
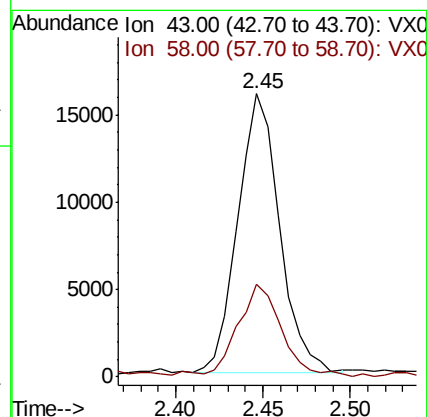
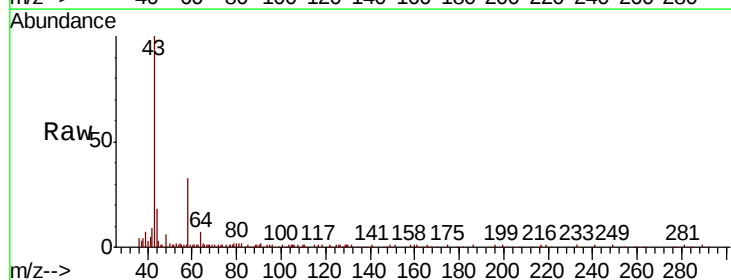
Acq: 21 Dec 2018 04:15

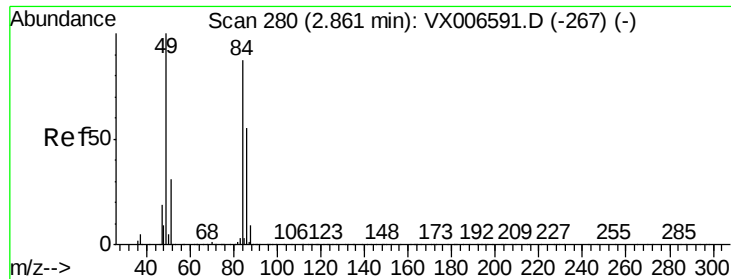
Tgt Ion: 43 Resp: 26469

Ion Ratio Lower Upper

43 100

58 32.2 25.0 37.6

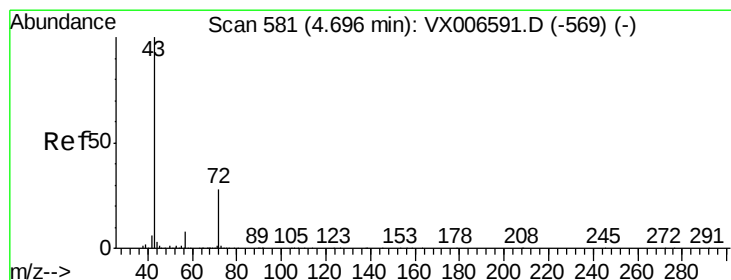
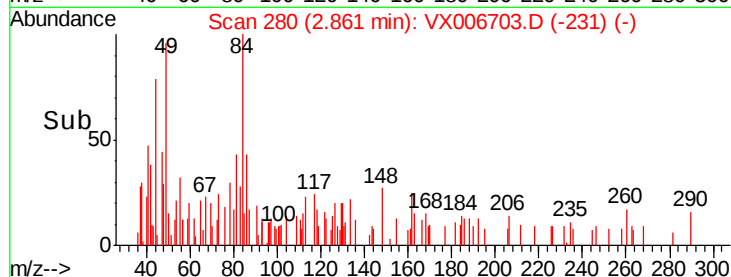
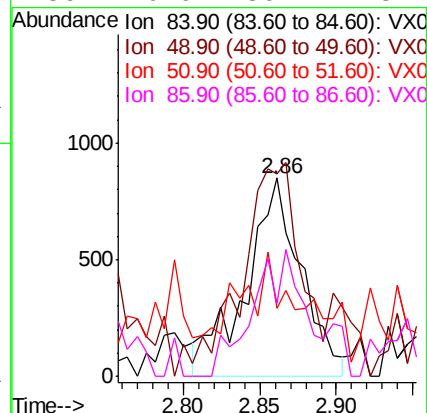
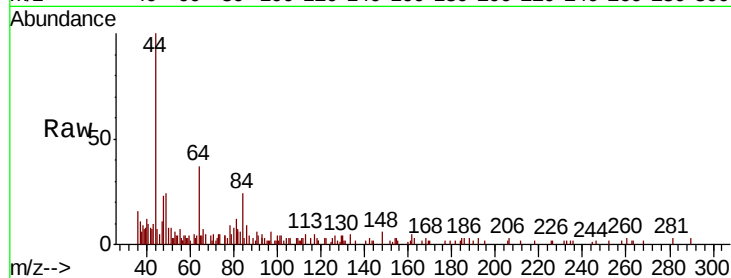




#20
Methvlene Chloride
Concen: 0.308 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006703.D
Acq: 21 Dec 2018 04:15

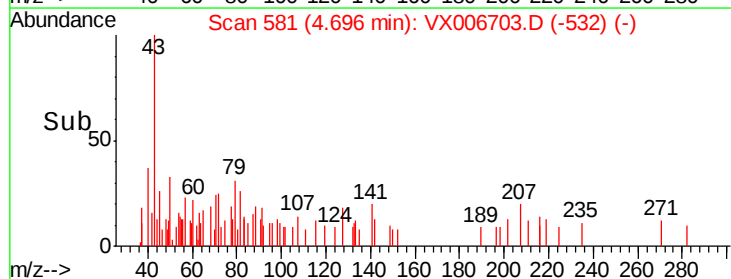
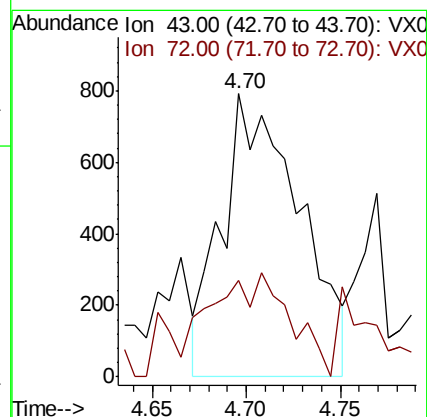
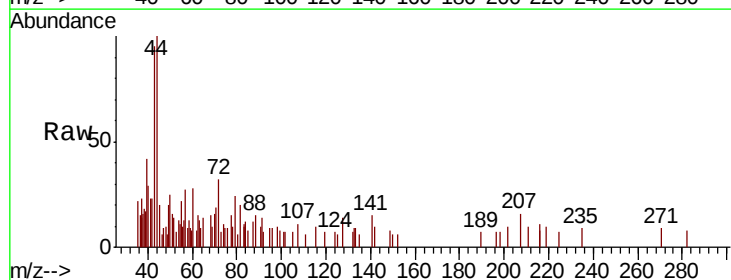
Instrument :
MSVOA_X
ClientSampleId :
T2-MW-5-8.0-121918

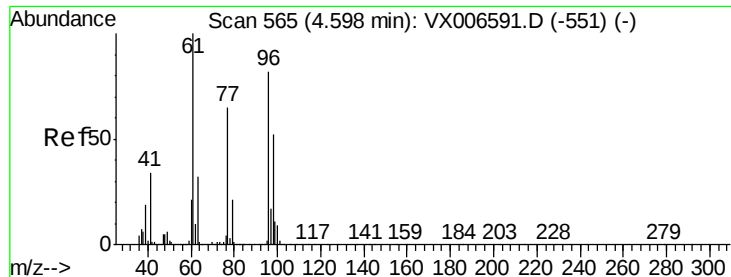
Tot Ion: 84 Resp: 2125
Ion Ratio Lower Upper
84 100
49 105.7 91.8 137.6
51 16.2 28.5 42.7#
86 40.9 50.2 75.2#



#25
2-Butanone
Concen: 0.482 ug/l
RT: 4.70 min Scan# 581
Delta R.T. 0.00 min
Lab File: VX006703.D
Acq: 21 Dec 2018 04:15

Tgt Ion: 43 Resp: 2259
Ion Ratio Lower Upper
43 100
72 16.3 22.4 33.6#



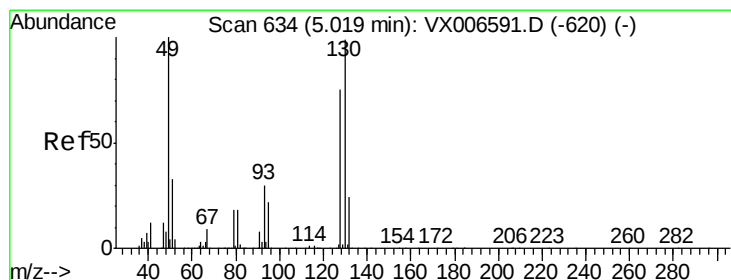
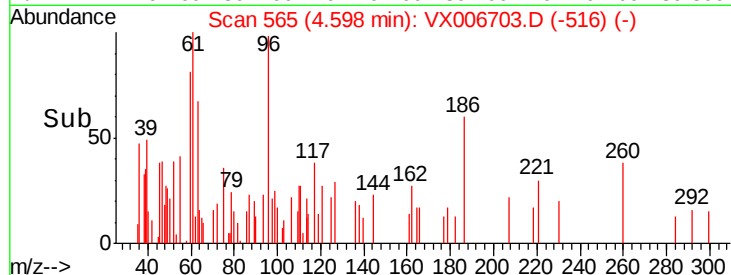
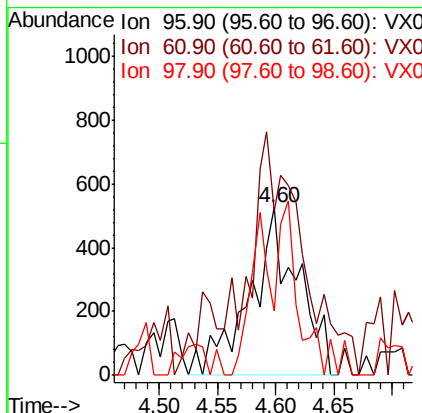
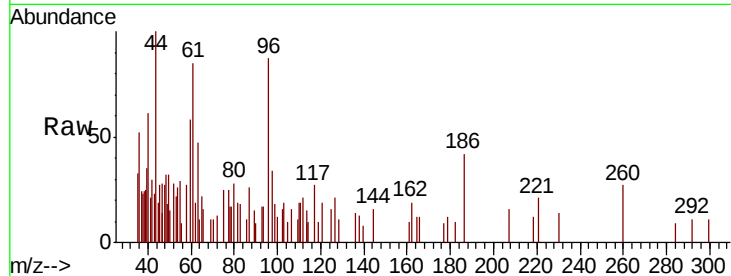


#27

cis-1,2-Dichloroethene
 Concen: 0.205 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.00 min
 Lab File: VX006703.D
 Acq: 21 Dec 2018 04:15

Instrument :
 MSVOA_X
 ClientSampleId :
 T2-MW-5-8.0-121918

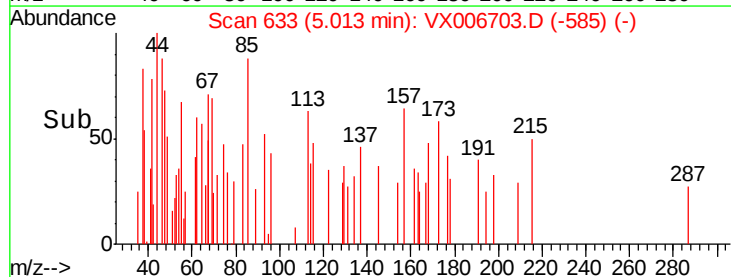
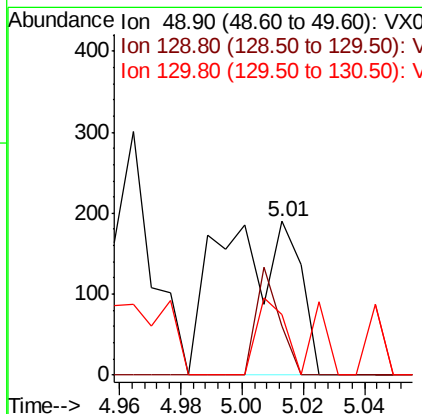
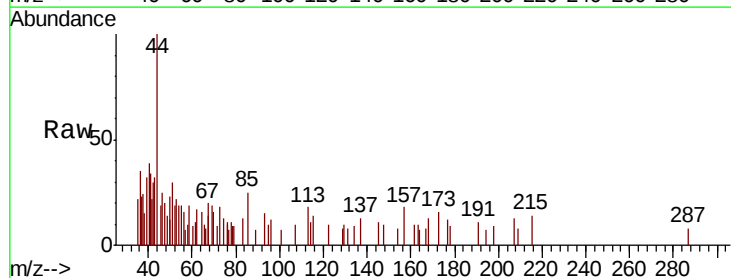
Tot Ion	Ratio	Lower	Upper
96	100		
61	141.1	0.0	258.6
98	39.5	0.0	132.0

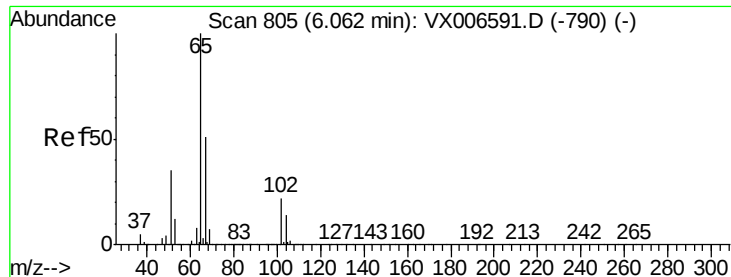


#28

Bromochloromethane
 Concen: Below Cal
 RT: 5.01 min Scan# 633
 Delta R.T. -0.01 min
 Lab File: VX006703.D
 Acq: 21 Dec 2018 04:15

Tgt Ion	Ratio	Lower	Upper
49	100		
129	20.9	0.0	5.4#
130	18.6	77.7	116.5#





#33

1,2-Dichloroethane-d4

Concen: 47.976 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006703.D

Acq: 21 Dec 2018 04:15

Instrument :

MSVOA_X

ClientSampleId :

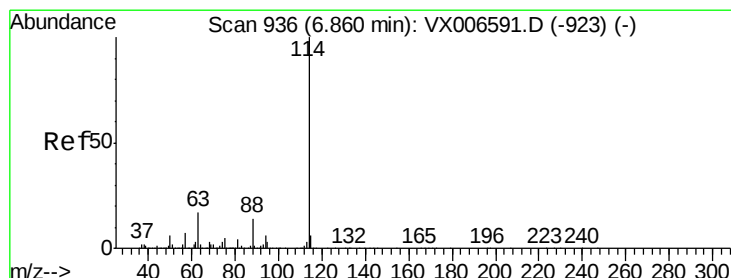
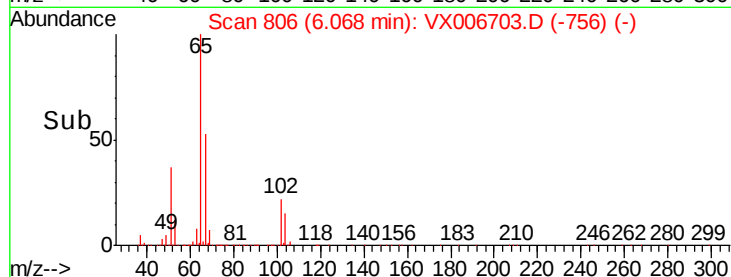
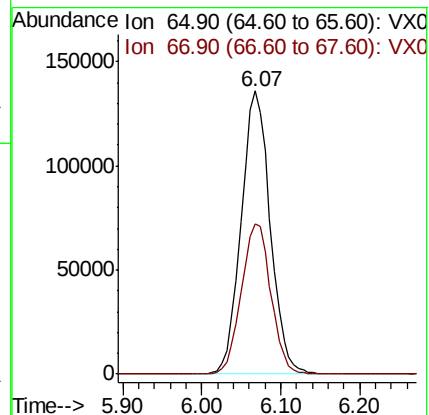
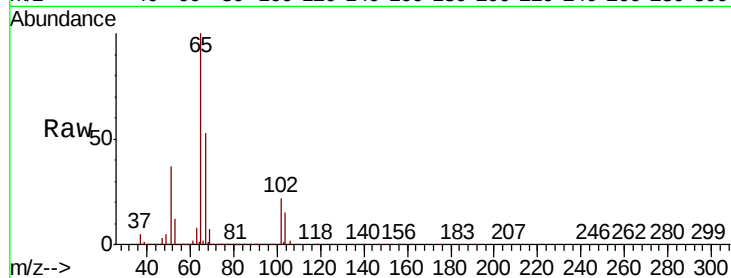
T2-MW-5-8.0-121918

Tot Ion: 65 Resp: 348016

Ion Ratio Lower Upper

65 100

67 53.9 0.0 105.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006703.D

Acq: 21 Dec 2018 04:15

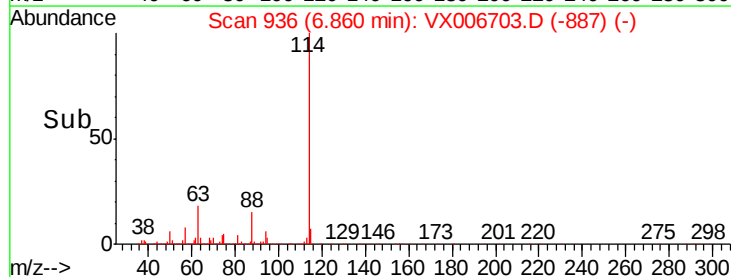
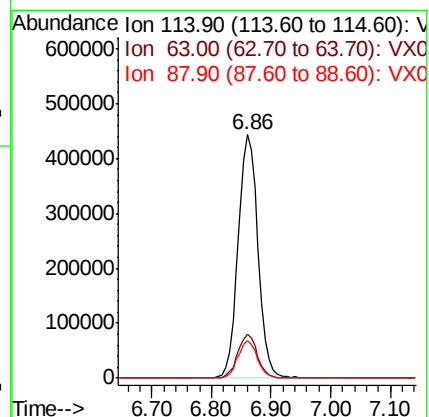
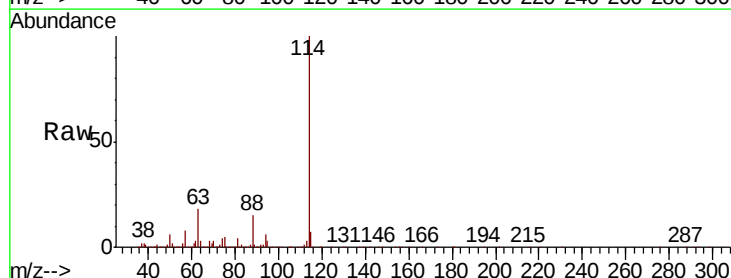
Tgt Ion: 114 Resp: 1026942

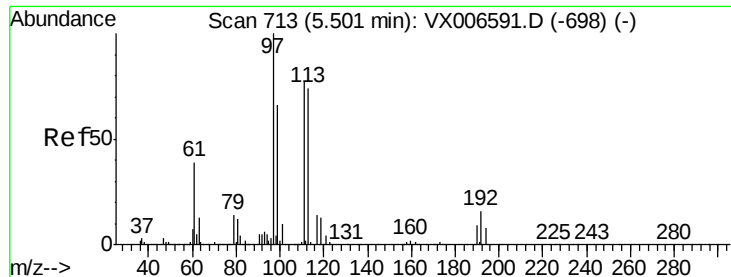
Ion Ratio Lower Upper

114 100

63 18.1 0.0 34.8

88 15.2 0.0 28.8





#35

Dibromofluoromethane

Concen: 46.097 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006703.D

Acq: 21 Dec 2018 04:15

Instrument :

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ClientSampleId :

T2-MW-5-8.0-121918

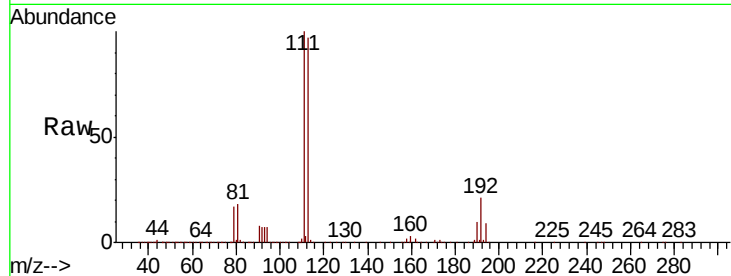
Tot Ion:113 Resp: 299362

Ion Ratio Lower Upper

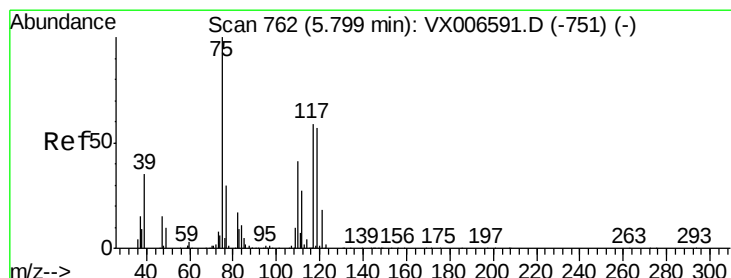
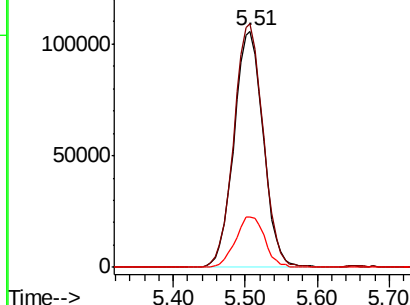
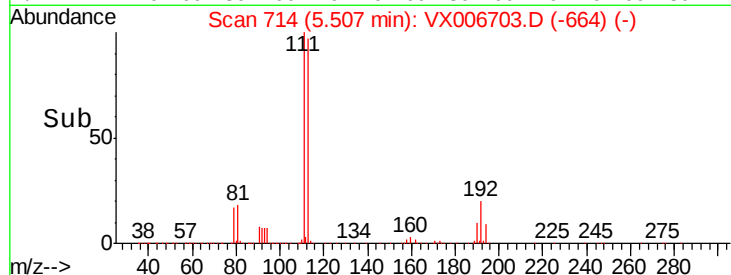
113 100

111 102.9 81.6 122.4

192 21.5 16.7 25.1



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: 4.959 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006703.D

Acq: 21 Dec 2018 04:15

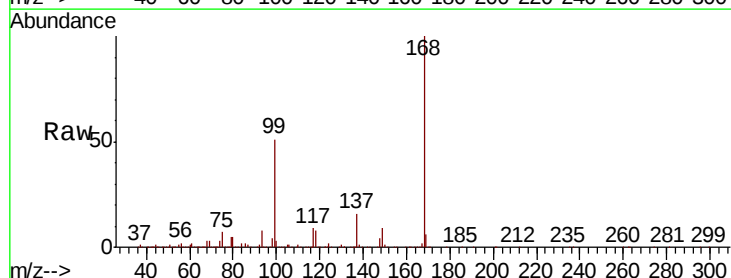
Tgt Ion: 75 Resp: 42178

Ion Ratio Lower Upper

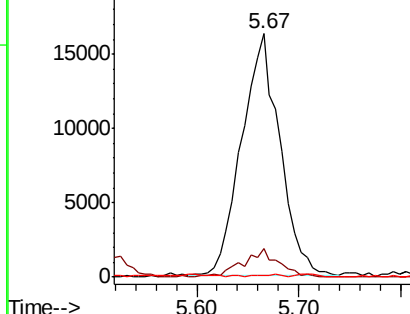
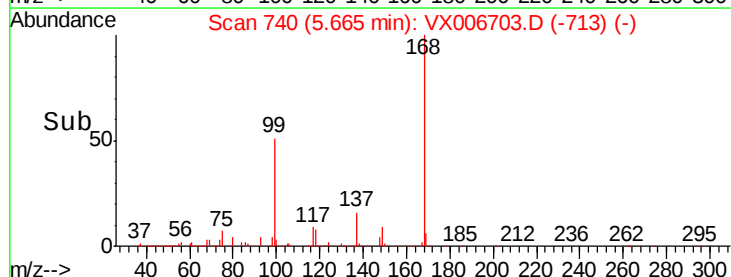
75 100

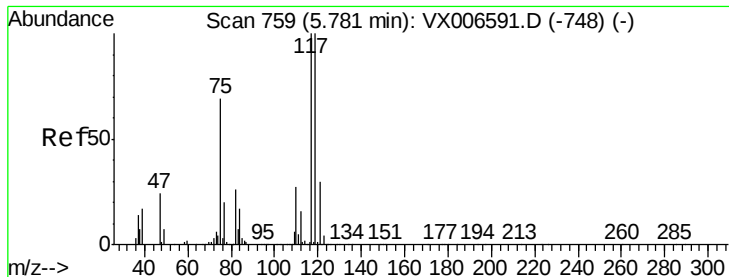
110 10.9 20.2 60.5#

77 0.3 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: 7.561 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006703.D

Acq: 21 Dec 2018 04:15

Instrument :

MSVOA_X

ClientSampleId :

T2-MW-5-8.0-121918

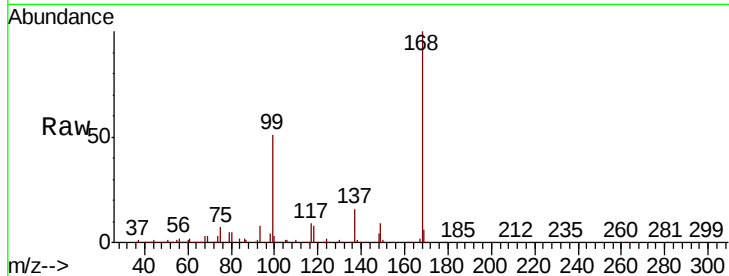
Tot Ion:117 Resp: 62495

Ion Ratio Lower Upper

117 100

119 5.2 79.4 119.2#

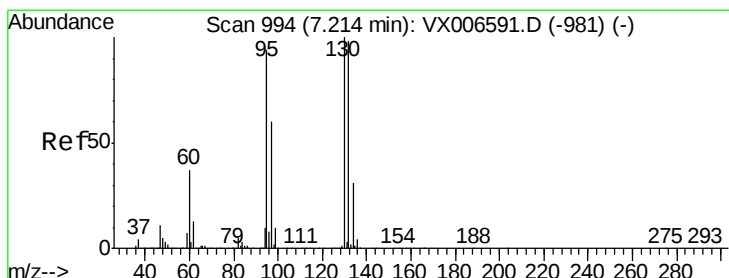
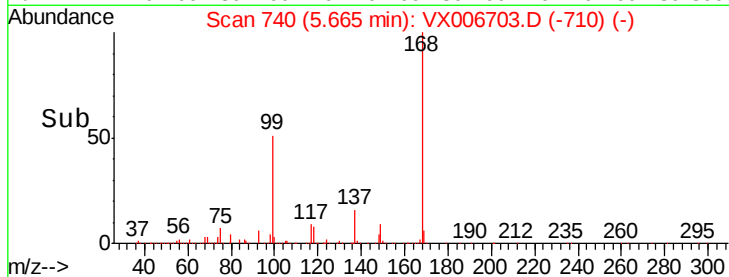
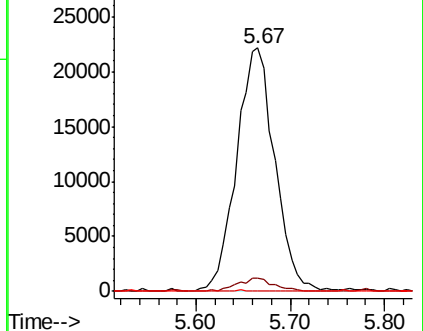
121 0.0 24.0 36.0#



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: 0.792 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX006703.D

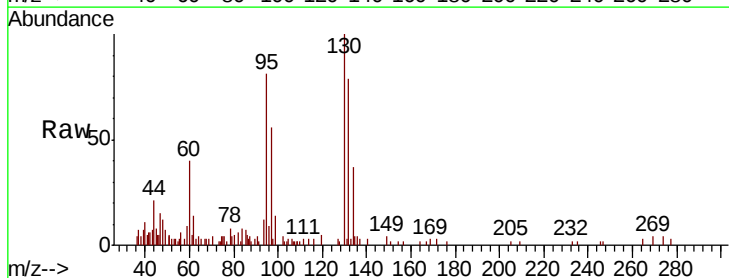
Acq: 21 Dec 2018 04:15

Tgt Ion:130 Resp: 6196

Ion Ratio Lower Upper

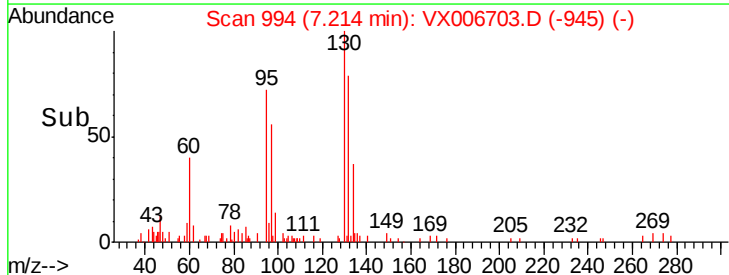
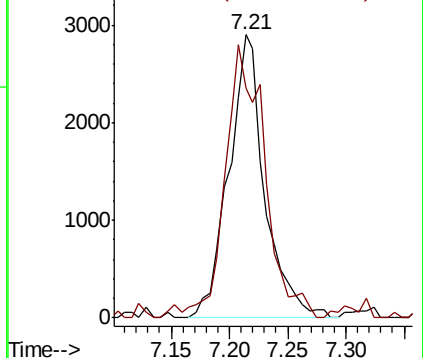
130 100

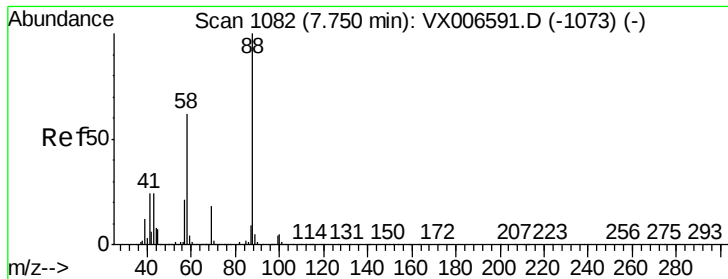
95 79.1 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

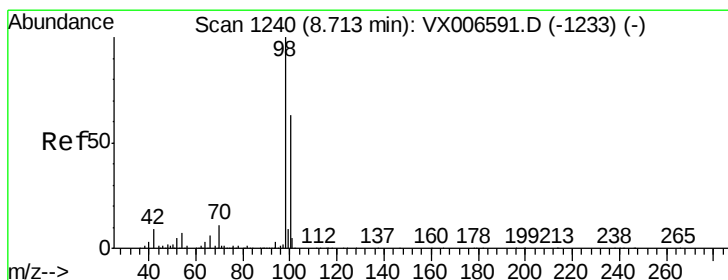
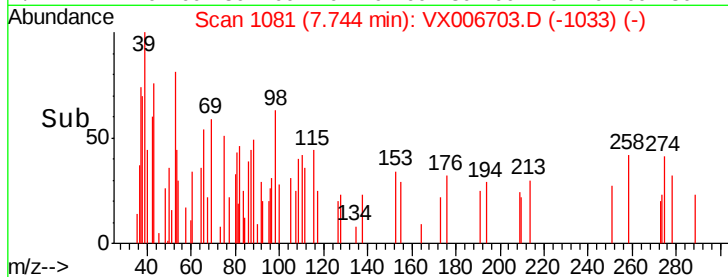
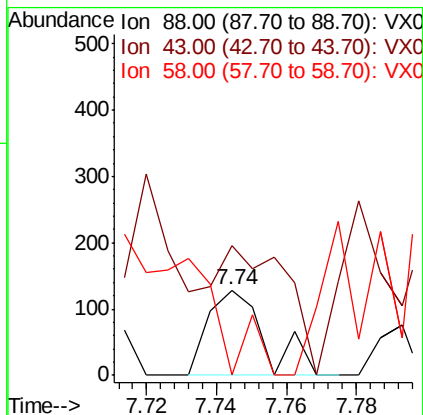
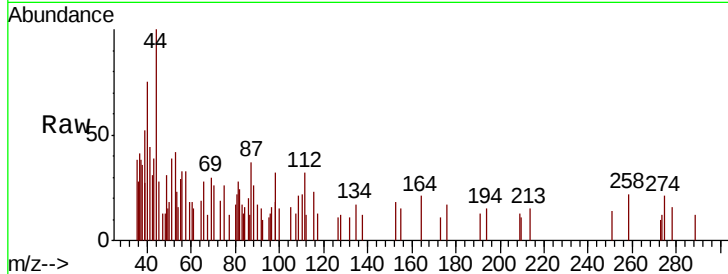




#49
1,4-Dioxane
Concen: Below Cal
RT: 7.74 min Scan# 1081
Delta R.T. -0.01 min
Lab File: VX006703.D
Acq: 21 Dec 2018 04:15

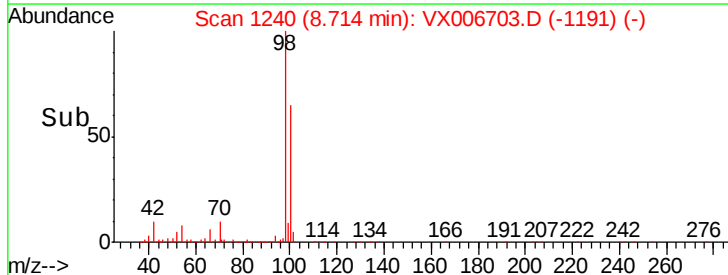
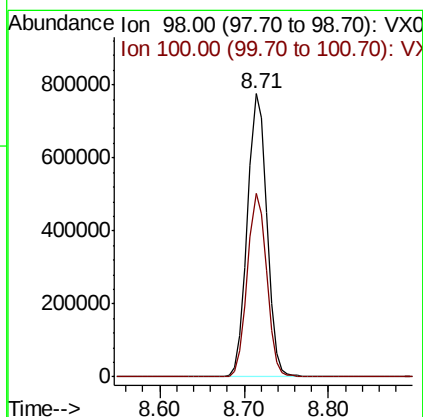
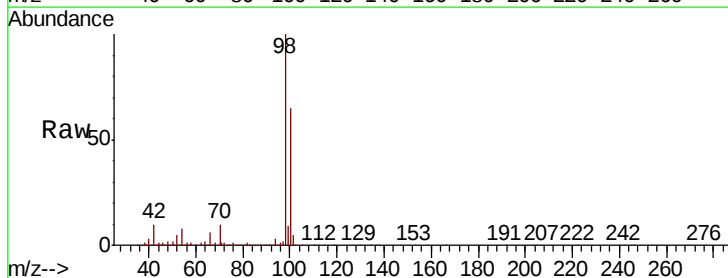
Instrument :
MSVOA_X
ClientSampleId :
T2-MW-5-8.0-121918

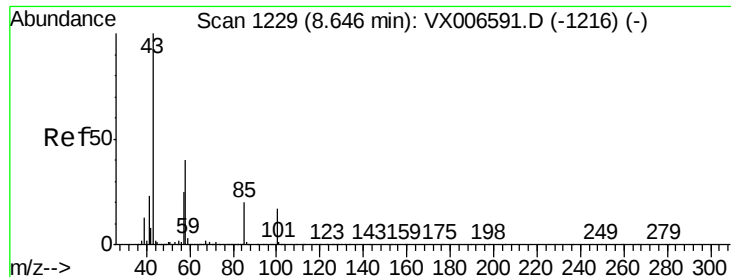
Tot Ion: 88 Resp: 144
Ion Ratio Lower Upper
88 100
43 171.5 22.2 33.4#
58 0.0 51.0 76.4#



#50
Toluene-d8
Concen: 48.961 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX006703.D
Acq: 21 Dec 2018 04:15

Tgt Ion: 98 Resp: 1198734
Ion Ratio Lower Upper
98 100
100 64.3 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 0.281 ug/l

RT: 8.65 min Scan# 1230

Delta R.T. 0.01 min

Lab File: VX006703.D

Acq: 21 Dec 2018 04:15

Instrument :

MSVOA_X

ClientSampleId :

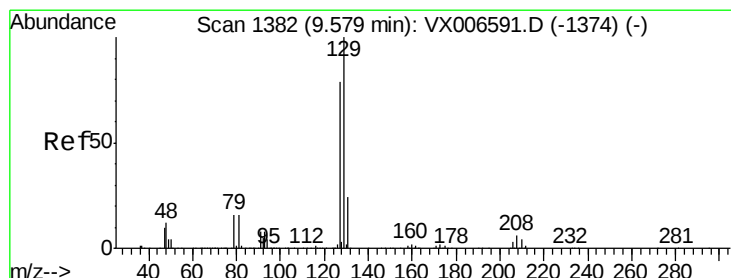
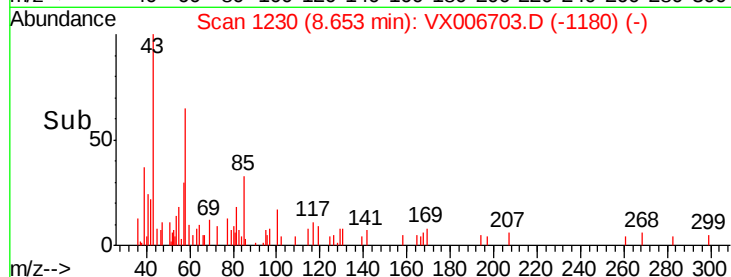
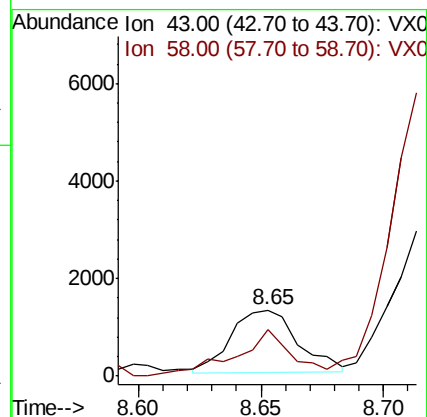
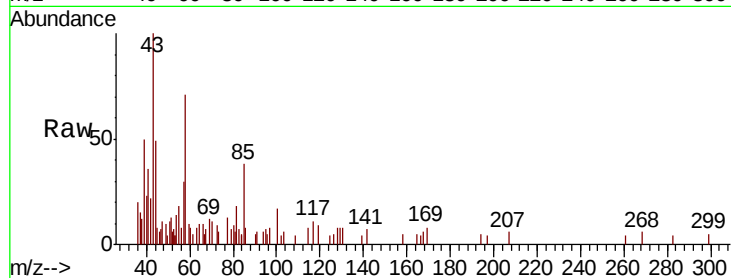
T2-MW-5-8.0-121918

Tot Ion: 43 Resp: 2411

Ion Ratio Lower Upper

43 100

58 63.7 31.8 47.6#



#60

Dibromochloromethane

Concen: 2.338 ug/l

RT: 9.40 min Scan# 1353

Delta R.T. -0.18 min

Lab File: VX006703.D

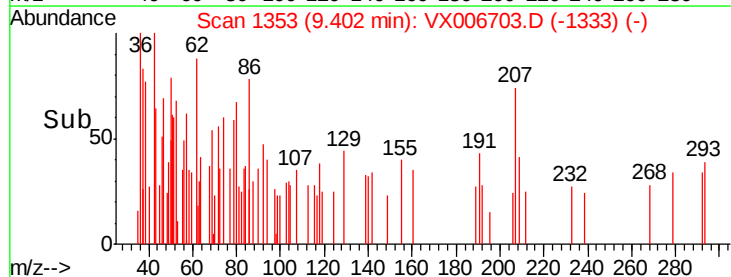
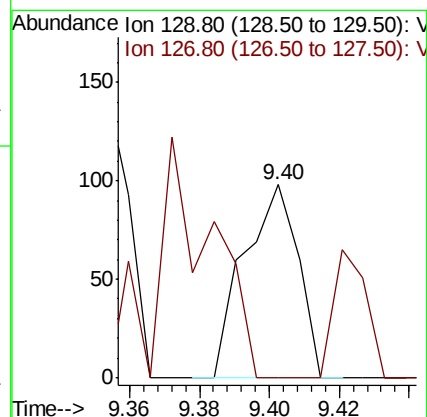
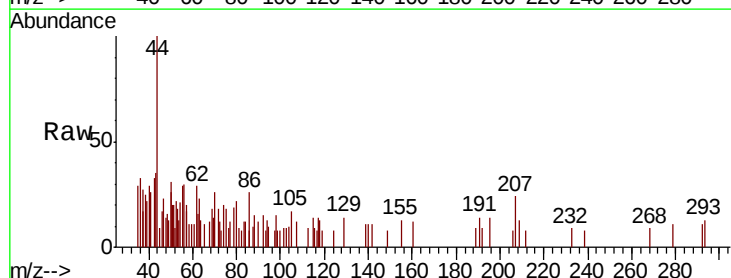
Acq: 21 Dec 2018 04:15

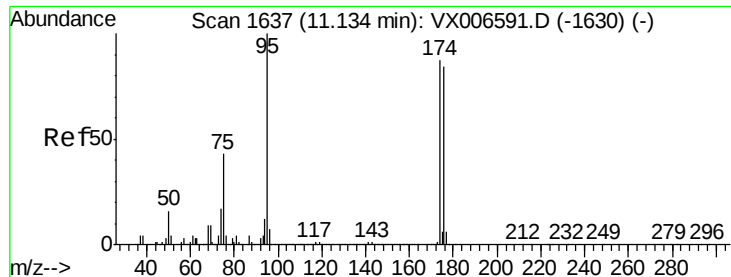
Tgt Ion: 129 Resp: 105

Ion Ratio Lower Upper

129 100

127 40.0 39.3 117.8





#62

4-Bromofluorobenzene

Concen: 47.606 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX006703.D

Acq: 21 Dec 2018 04:15

Instrument :

MSVOA_X

ClientSampleId :

T2-MW-5-8.0-121918

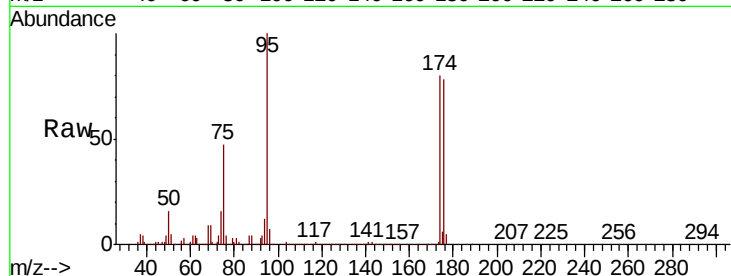
Tot Ion: 95 Resp: 426878

Ion Ratio Lower Upper

95 100

174 88.6 0.0 182.2

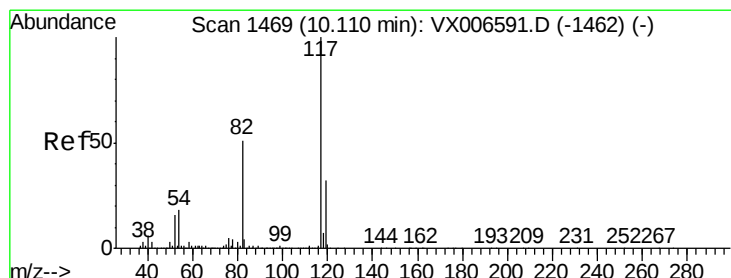
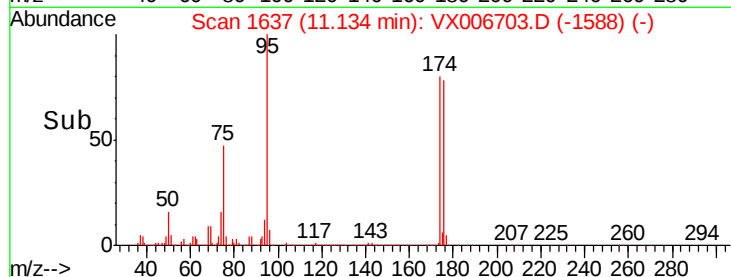
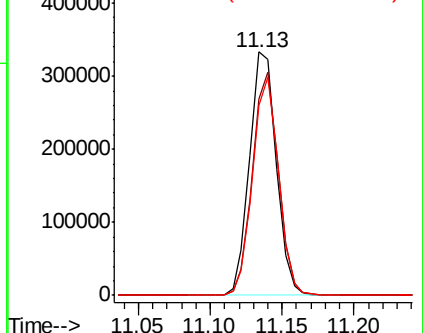
176 86.8 0.0 178.8



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. 0.01 min

Lab File: VX006703.D

Acq: 21 Dec 2018 04:15

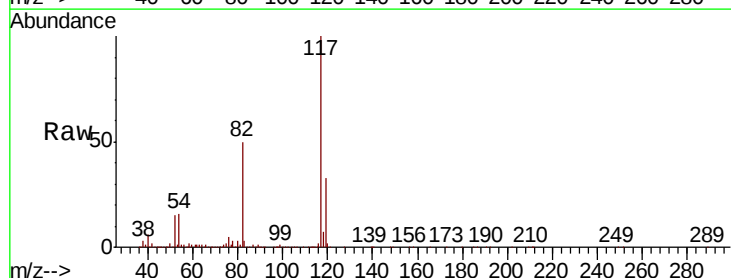
Tgt Ion: 117 Resp: 936964

Ion Ratio Lower Upper

117 100

82 50.0 41.0 61.6

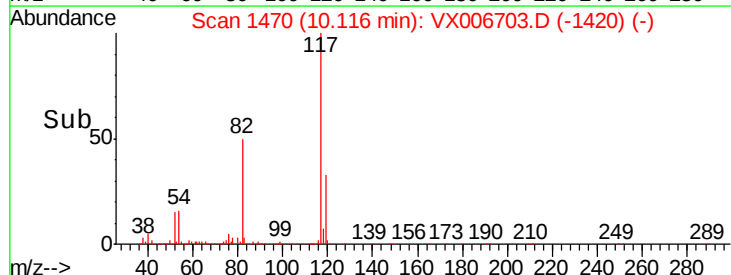
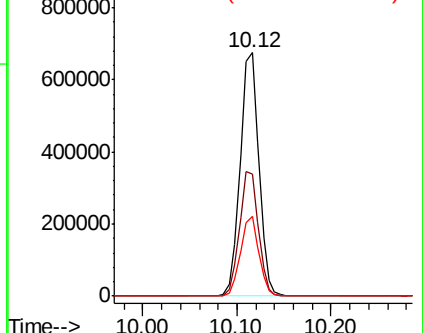
119 32.8 25.4 38.0

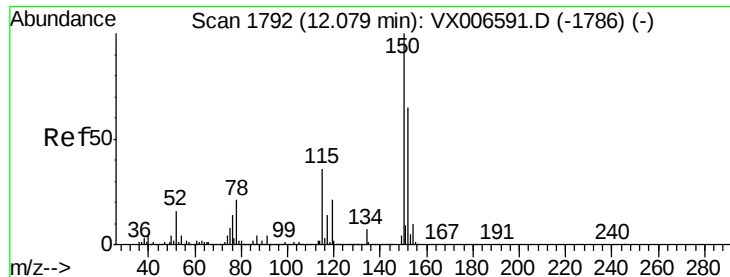


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



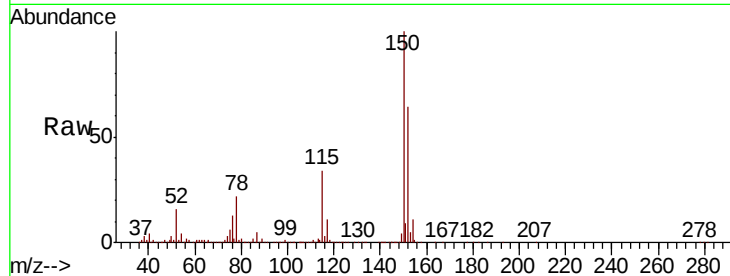


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX006703.D
Acq: 21 Dec 2018 04:15

Instrument :
MSVOA_X
ClientSampleId :
T2-MW-5-8.0-121918

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.3	39.1	117.2
150	157.8	0.0	344.8

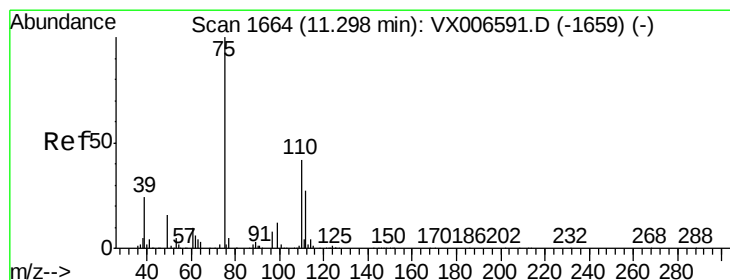
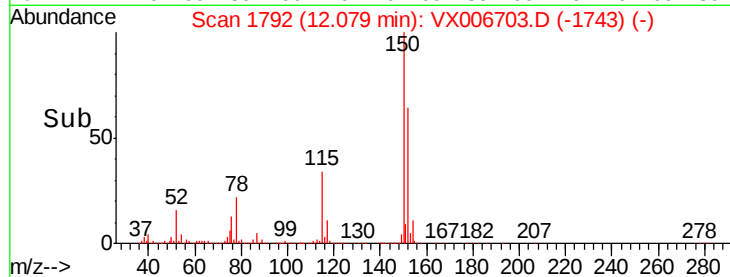
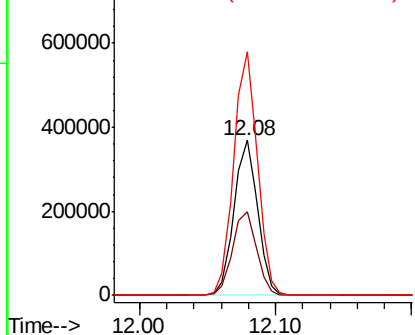


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

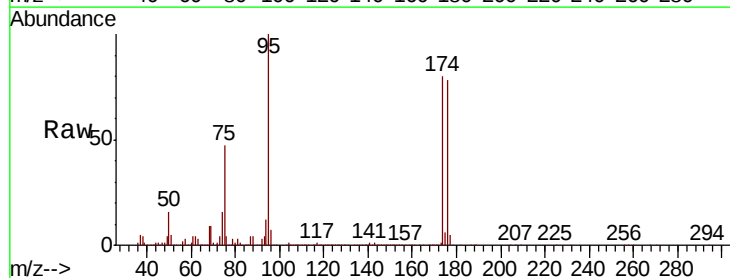
Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane
Concen: 23.627 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX006703.D
Acq: 21 Dec 2018 04:15

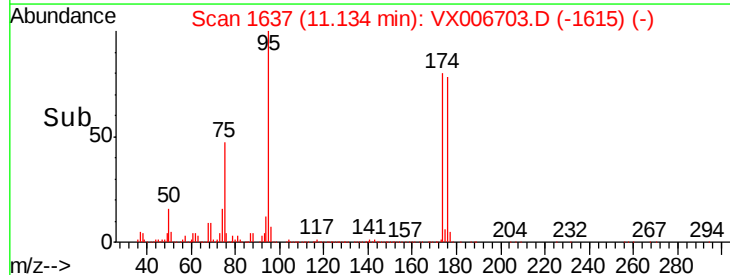
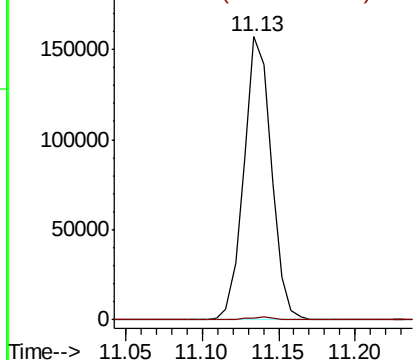
Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.2	18.5	55.5#

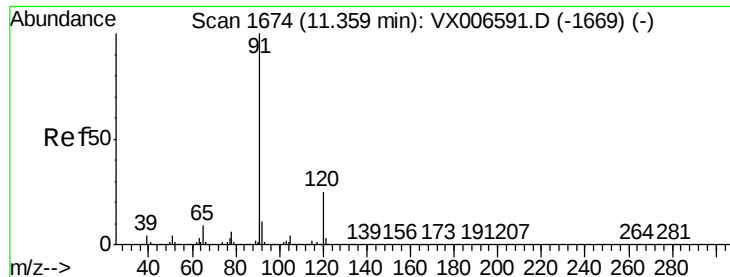


Abundance

Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#78

n-propylbenzene

Concen: 0.299 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX006703.D

Acq: 21 Dec 2018 04:15

Instrument :

MSVOA_X

ClientSampleId :

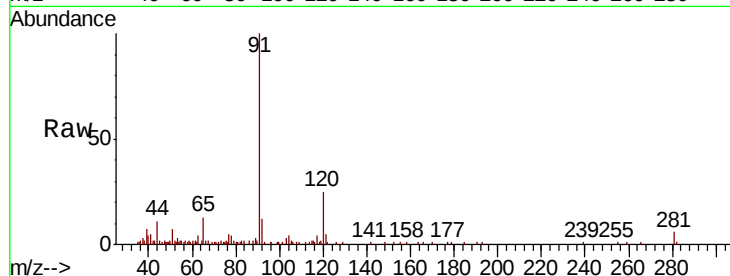
T2-MW-5-8.0-121918

Tot Ion: 91 Resp: 10055

Ion Ratio Lower Upper

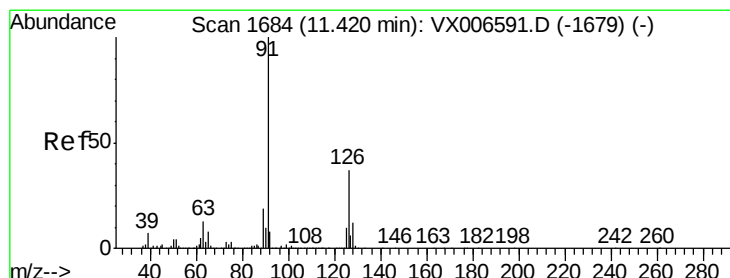
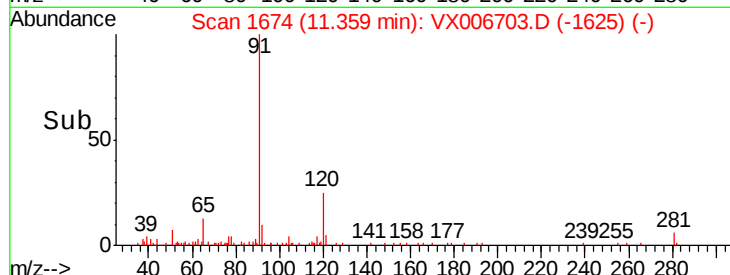
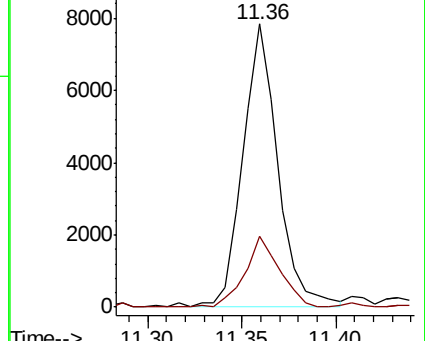
91 100

120 25.0 12.7 38.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 0.494 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.06 min

Lab File: VX006703.D

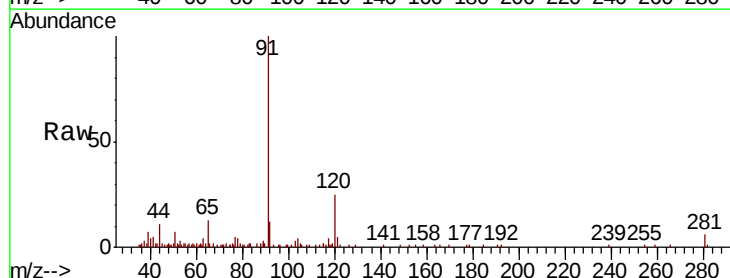
Acq: 21 Dec 2018 04:15

Tgt Ion: 91 Resp: 10055

Ion Ratio Lower Upper

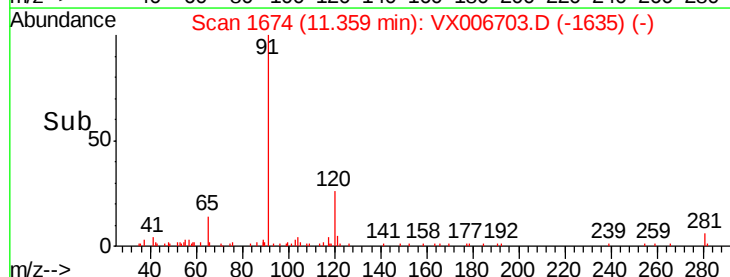
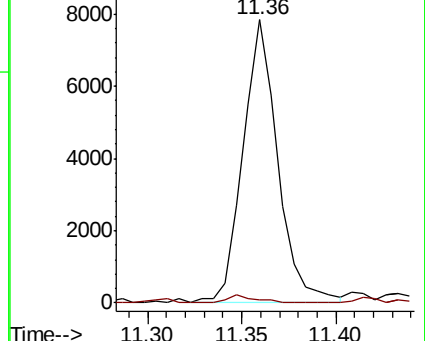
91 100

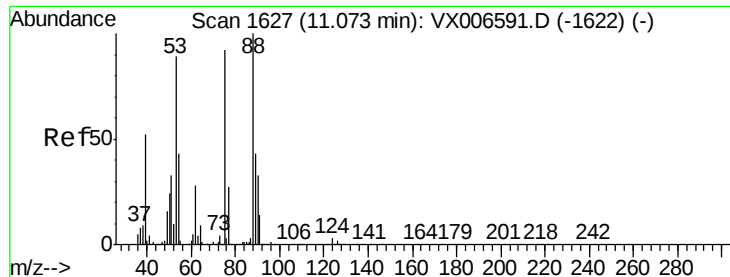
126 2.1 18.6 56.0#



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 70.050 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006703.D

Acq: 21 Dec 2018 04:15

Instrument :

MSVOA_X

ClientSampleId :

T2-MW-5-8.0-121918

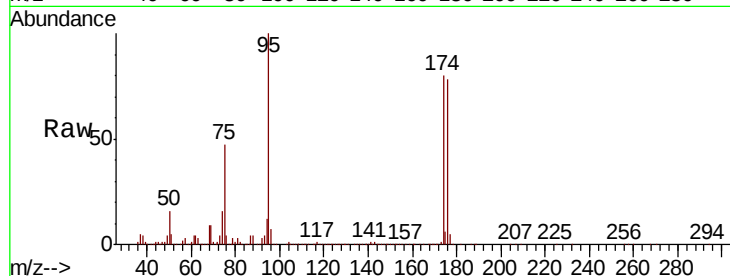
Tot Ion: 75 Resp: 195781

Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

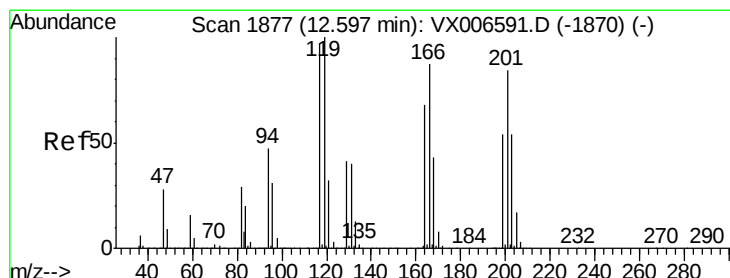
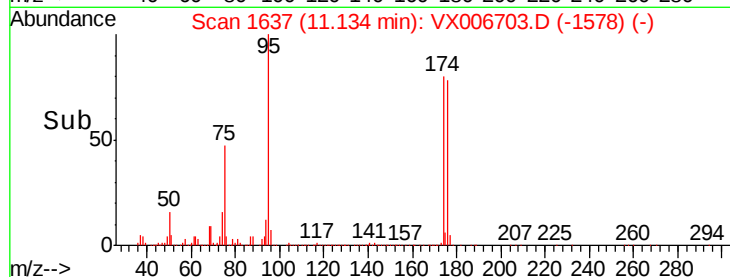
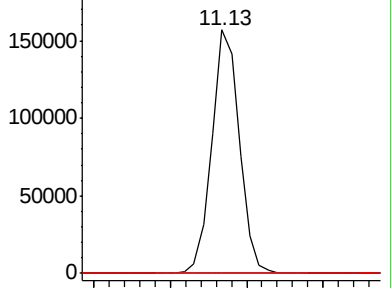
89 0.1 38.0 57.0#



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



#90

Hexachloroethane

Concen: 3.403 ug/l

RT: 12.58 min Scan# 1875

Delta R.T. -0.01 min

Lab File: VX006703.D

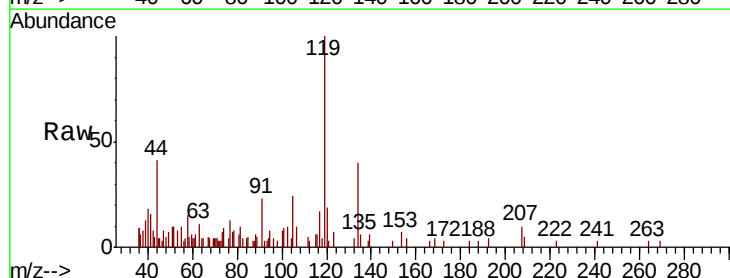
Acq: 21 Dec 2018 04:15

Tgt Ion: 117 Resp: 500

Ion Ratio Lower Upper

117 100

201 3.8 42.9 128.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

