

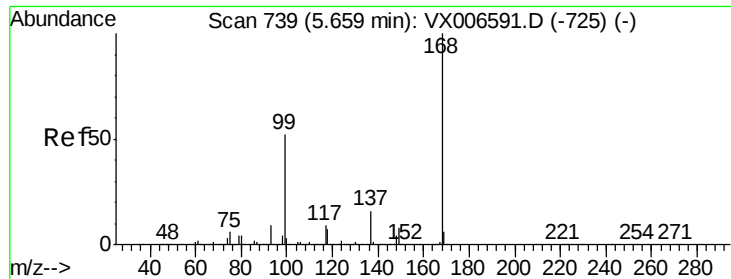
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006699.D
 Acq On : 21 Dec 2018 02:28
 Operator : JC/MD
 Sample : J6514-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 21 03:39:23 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	625018	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	986072	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	901133	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	418276	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	343259	50.96	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.92%	
35) Dibromofluoromethane	5.51	113	298203	47.82	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.64%	
50) Toluene-d8	8.71	98	1171030	49.81	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.62%	
62) 4-Bromofluorobenzene	11.13	95	414280	48.12	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.24%	
Target Compounds				Qvalue		
4) Vinyl Chloride	1.41	62	2428	0.377	ug/l #	68
5) Bromomethane	1.65	94	724	Below Cal		87
11) Tert butyl alcohol	3.03	59	21675	14.418	ug/l #	76
14) Allyl chloride	2.61	41	29920	3.183	ug/l #	61
16) Acetone	2.45	43	28679	9.267	ug/l	95
18) Methyl Acetate	2.62	43	94236	10.355	ug/l #	53
20) Methylene Chloride	2.87	84	1303	0.204	ug/l #	81
21) trans-1,2-Dichloroethene	3.17	96	2148	0.347	ug/l #	80
25) 2-Butanone	4.72	43	2121	0.487	ug/l #	69
27) cis-1,2-Dichloroethene	4.59	96	12155	1.781	ug/l	91
28) Bromochloromethane	5.02	49	62	Below Cal	#	50
31) Cyclohexane	5.66	56	10911	1.170	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	40936	5.012	ug/l #	49
38) Carbon Tetrachloride	5.67	117	59233	7.463	ug/l #	15
44) Trichloroethene	7.22	130	58992	7.851	ug/l	88
49) 1,4-Dioxane	7.75	88	108	Below Cal	#	27
60) Dibromochloromethane	9.59	129	21	2.327	ug/l #	10
76) 1,2,3-Trichloropropane	11.13	75	190754	24.540	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	190754	72.592	ug/l #	10
90) Hexachloroethane	12.52	117	46	3.304	ug/l	89

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006699.D

Acq: 21 Dec 2018 02:28

Instrument :

MSVOA_X

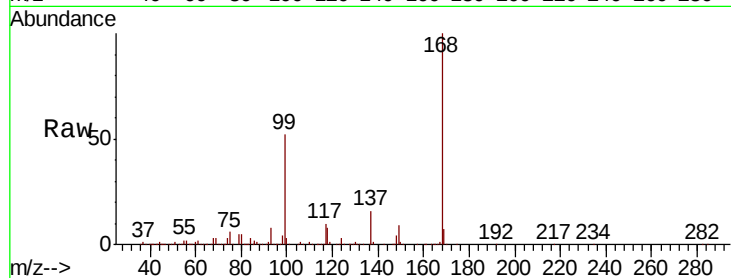
ClientSampleId :

Tot Ion:168 Resp: 625018

Ion Ratio Lower Upper

168 100

99 51.8 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

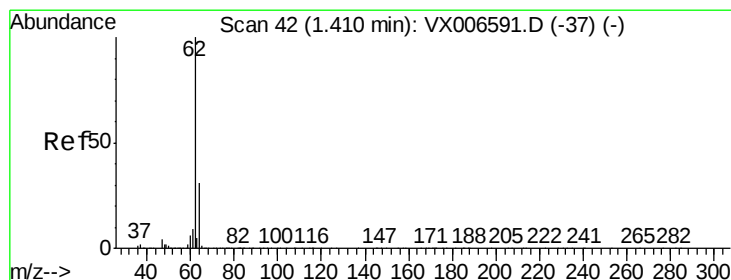
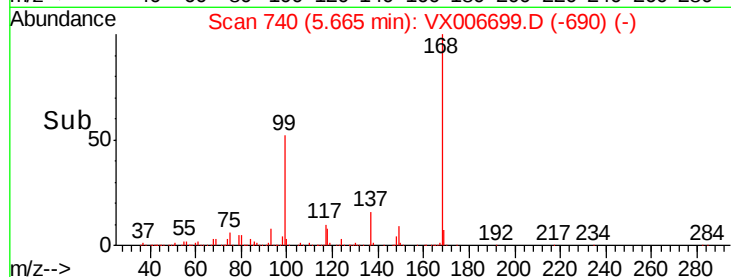
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 0.377 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX006699.D

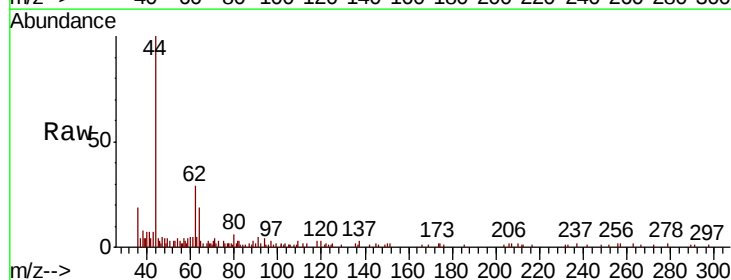
Acq: 21 Dec 2018 02:28

Tgt Ion: 62 Resp: 2428

Ion Ratio Lower Upper

62 100

64 49.2 25.1 37.7#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

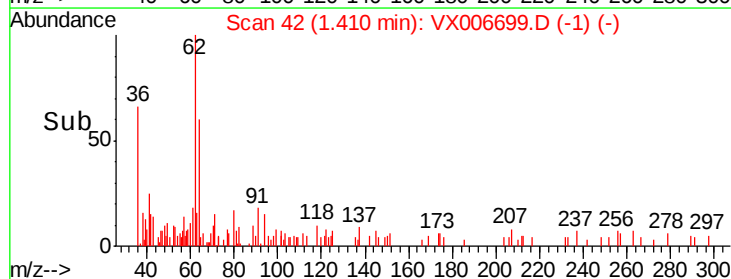
1500

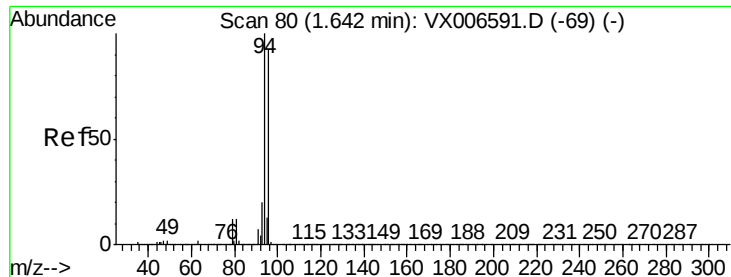
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX006699.D

Acq: 21 Dec 2018 02:28

Instrument :

MSVOA_X

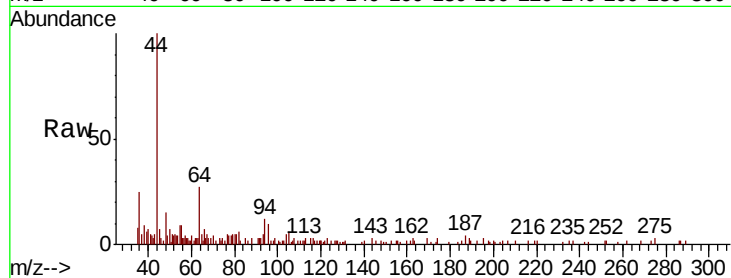
ClientSampleId :

Tot Ion: 94 Resp: 724

Ion Ratio Lower Upper

94 100

96 104.0 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

800

600

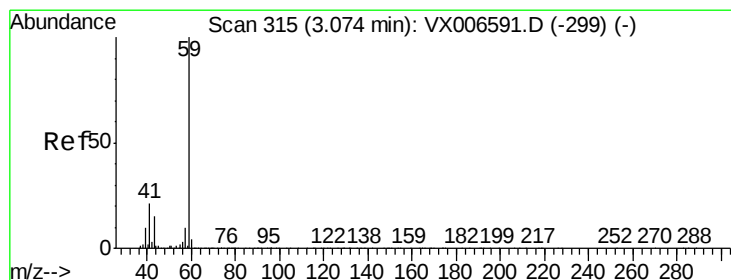
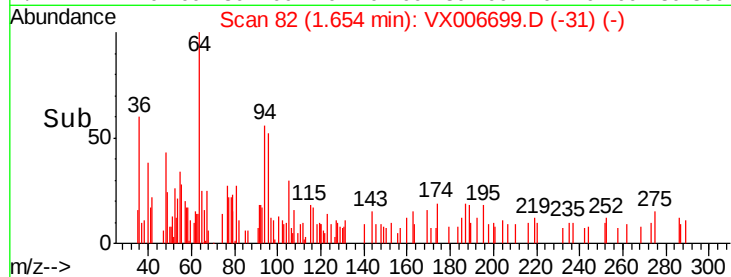
400

200

0

1.62 1.64 1.66 1.68

Time-->



#11

Tert butyl alcohol

Concen: 14.418 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX006699.D

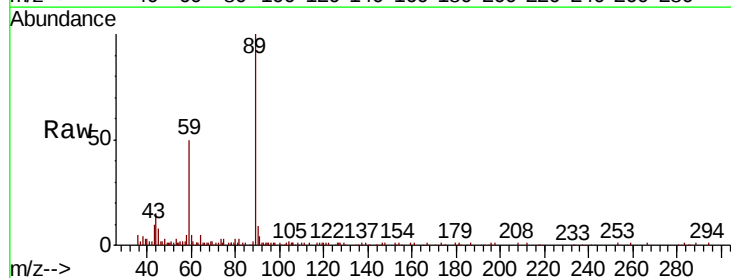
Acq: 21 Dec 2018 02:28

Tgt Ion: 59 Resp: 21675

Ion Ratio Lower Upper

59 100

57 1.7 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

8000

6000

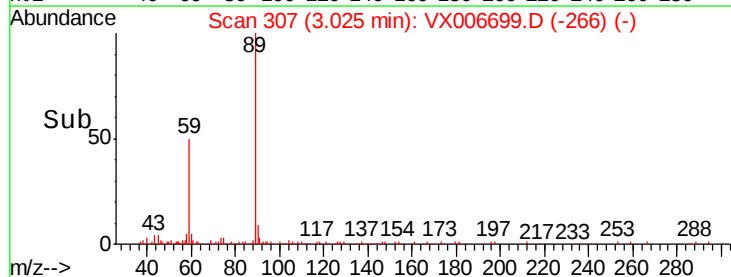
4000

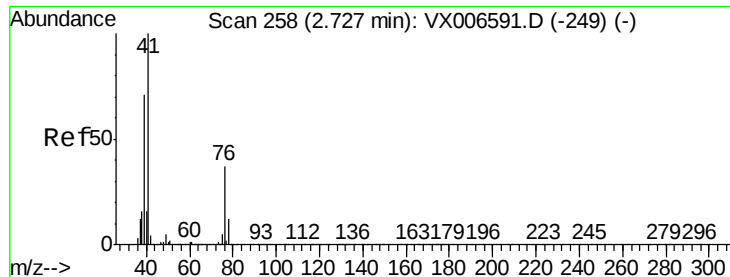
2000

0

2.90 3.00 3.10

Time-->





#14

Allvl chloride

Concen: 3.183 ug/l

RT: 2.61 min Scan# 239

Delta R.T. -0.12 min

Lab File: VX006699.D

Acq: 21 Dec 2018 02:28

Instrument :

MSVOA_X

ClientSampleId :

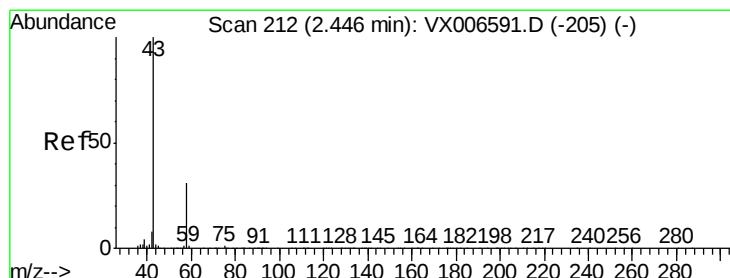
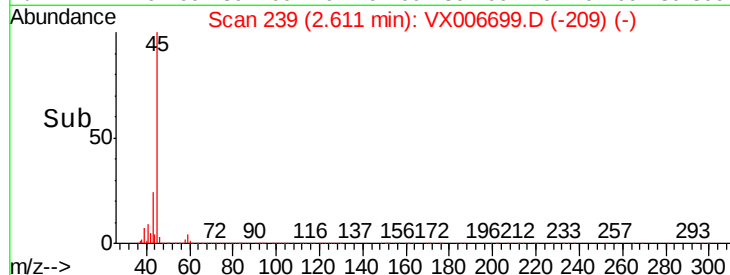
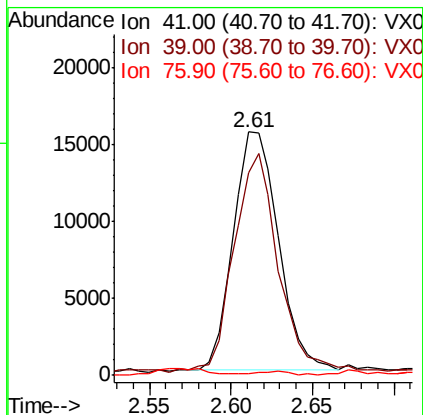
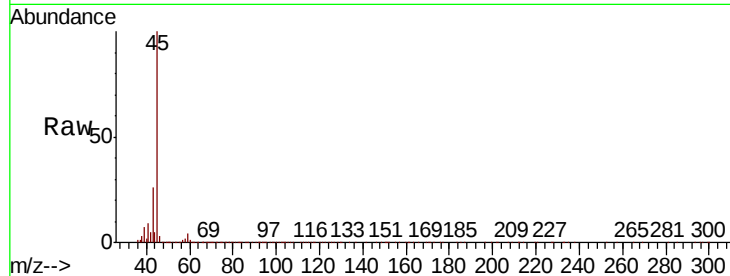
Tot Ion: 41 Resp: 29920

Ion Ratio Lower Upper

41 100

39 90.3 53.6 80.4#

76 1.3 27.4 41.2#



#16

Acetone

Concen: 9.267 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006699.D

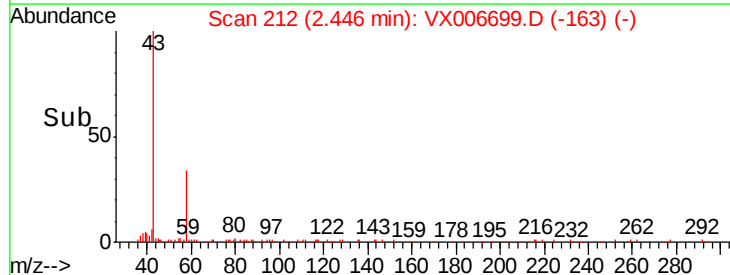
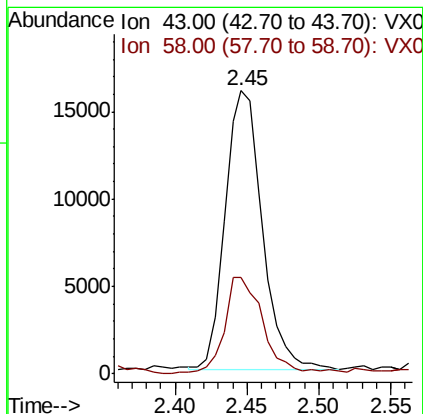
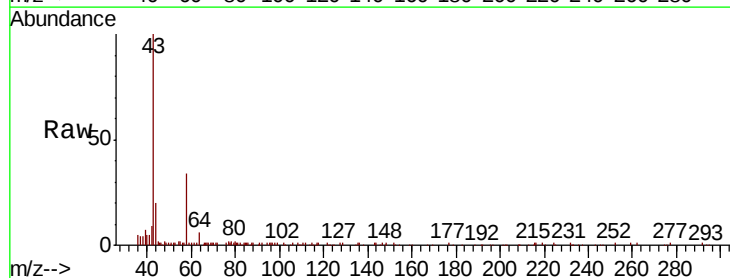
Acq: 21 Dec 2018 02:28

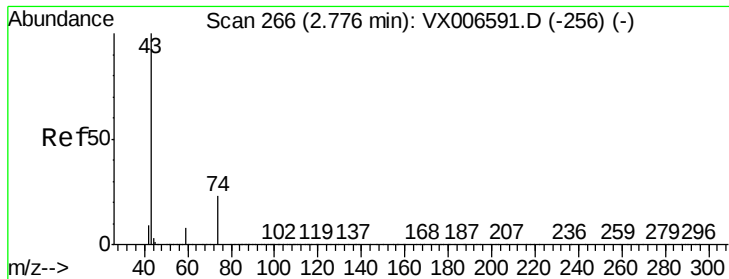
Tgt Ion: 43 Resp: 28679

Ion Ratio Lower Upper

43 100

58 33.8 25.0 37.6

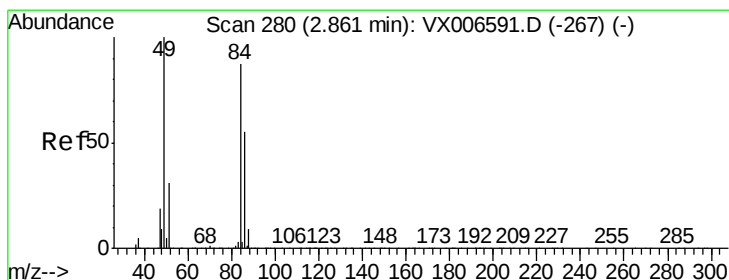
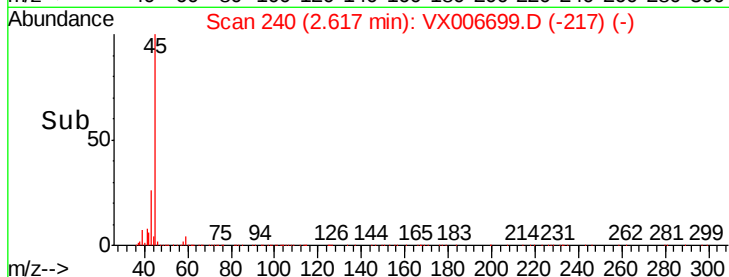
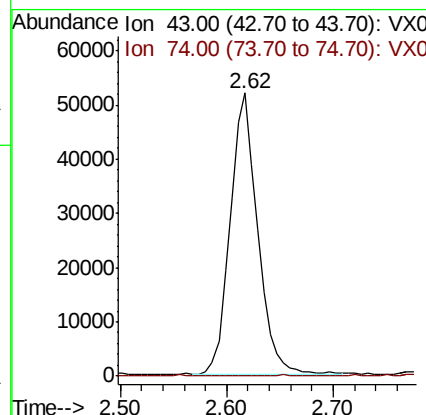
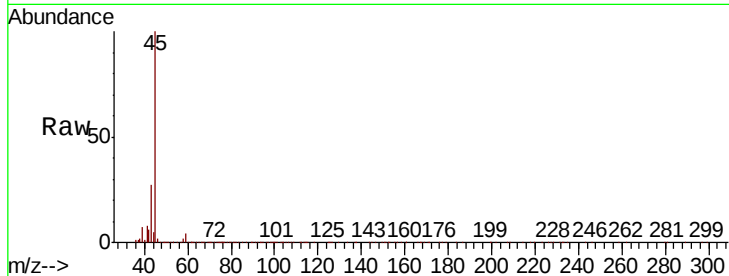




#18
Methyl Acetate
Concen: 10.355 ug/l
RT: 2.62 min Scan# 240
Delta R.T. -0.16 min
Lab File: VX006699.D
Acq: 21 Dec 2018 02:28

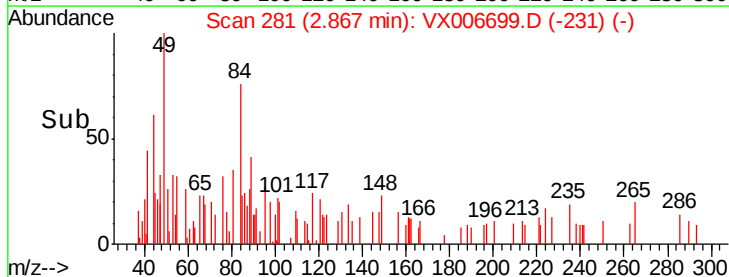
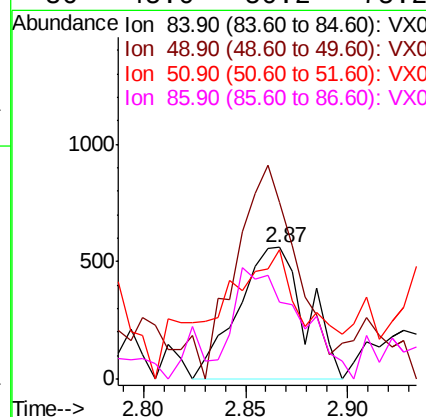
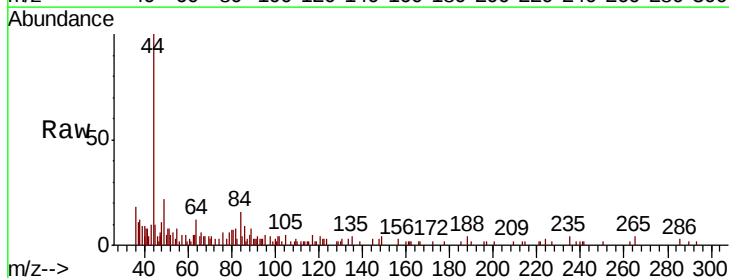
Instrument :
MSVOA_X
ClientSampleId :

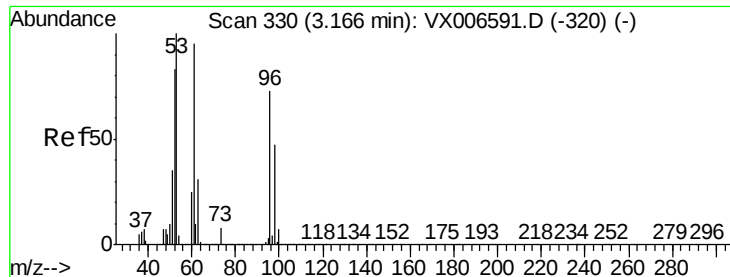
Tot Ion: 43 Resp: 94236
Ion Ratio Lower Upper
43 100
74 0.1 18.6 28.0#



#20
Methylene Chloride
Concen: 0.204 ug/l
RT: 2.87 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX006699.D
Acq: 21 Dec 2018 02:28

Tgt Ion: 84 Resp: 1303
Ion Ratio Lower Upper
84 100
49 106.6 91.8 137.6
51 64.6 28.5 42.7#
86 45.0 50.2 75.2#





#21

trans-1,2-Dichloroethene

Concen: 0.347 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX006699.D

Acq: 21 Dec 2018 02:28

Instrument :
MSVOA_X
ClientSampled :

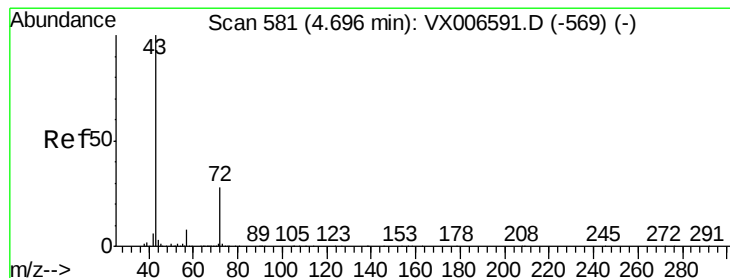
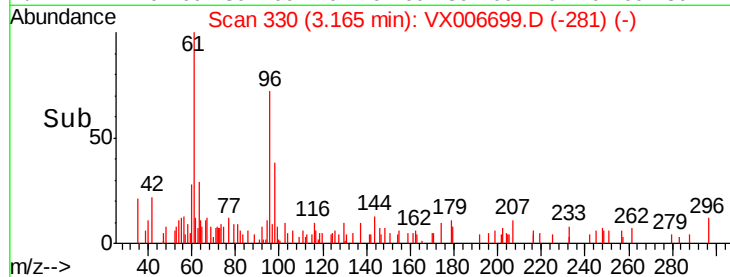
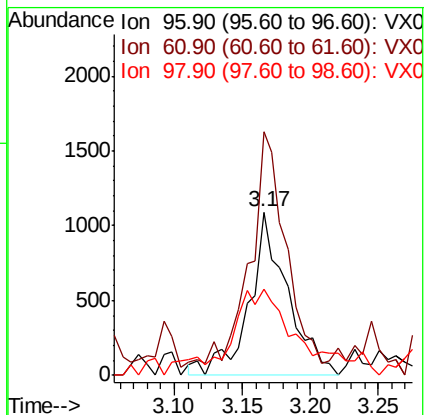
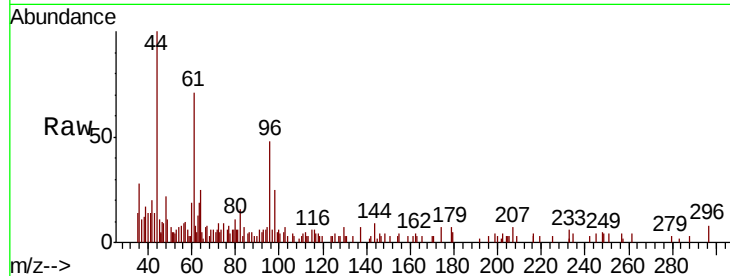
Tot Ion: 96 Resp: 2148

Ion Ratio Lower Upper

96 100

61 150.8 103.7 155.5

98 45.8 51.0 76.6#



#25

2-Butanone

Concen: 0.487 ug/l

RT: 4.72 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX006699.D

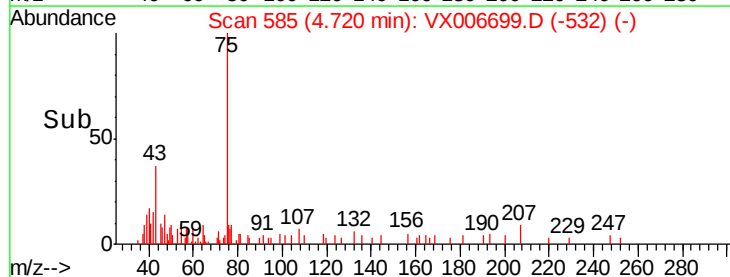
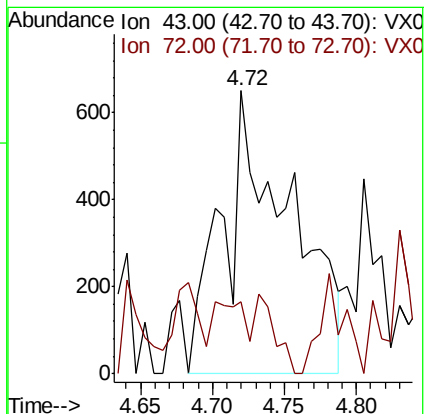
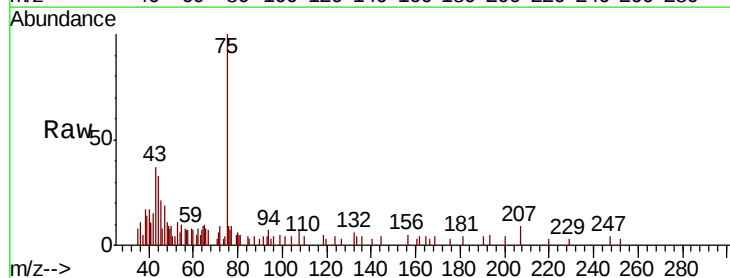
Acq: 21 Dec 2018 02:28

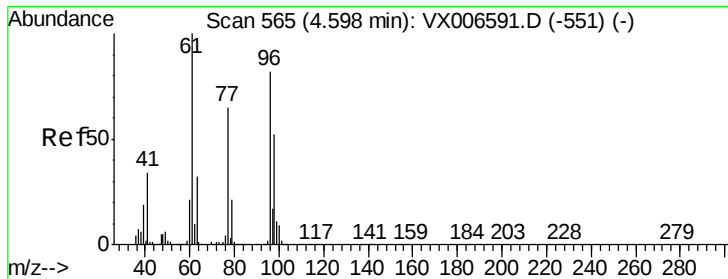
Tgt Ion: 43 Resp: 2121

Ion Ratio Lower Upper

43 100

72 11.5 22.4 33.6#



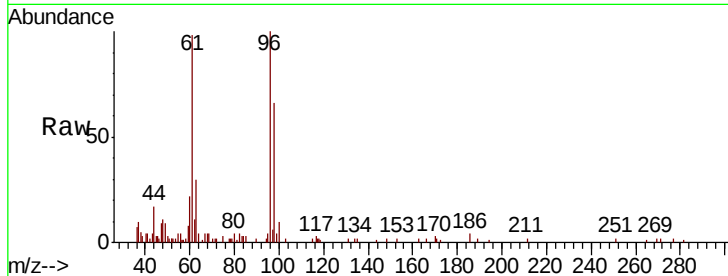


#27

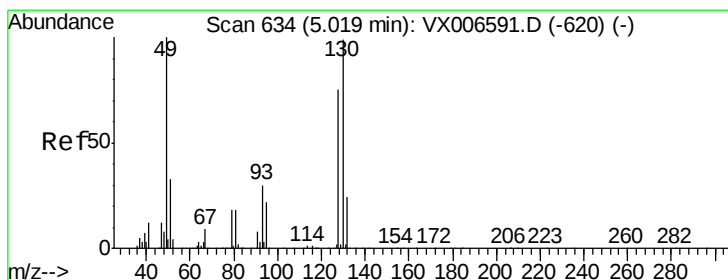
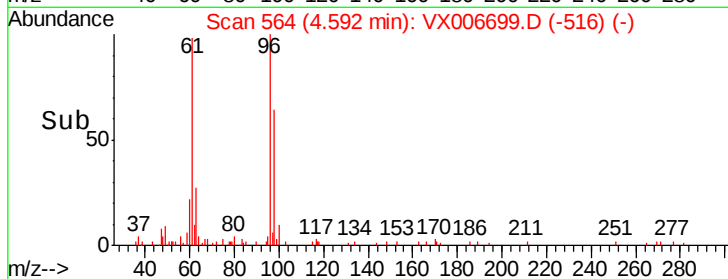
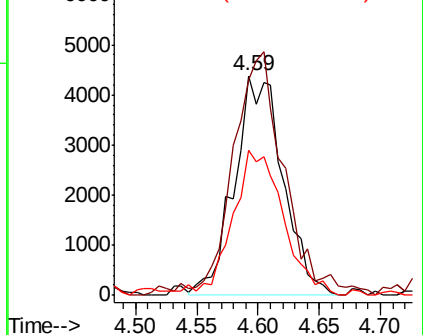
cis-1,2-Dichloroethene
Concen: 1.781 ug/l
RT: 4.59 min Scan# 564
Delta R.T. -0.01 min
Lab File: VX006699.D
Acq: 21 Dec 2018 02:28

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	116.0	0.0	258.6
98	69.0	0.0	132.0



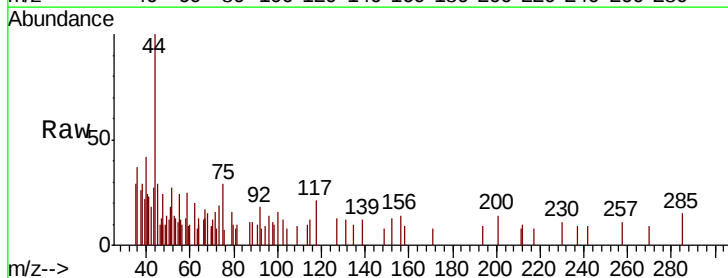
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



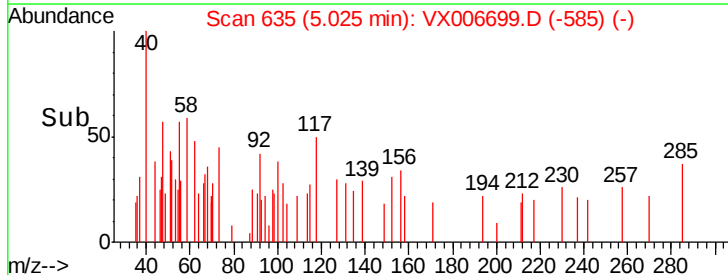
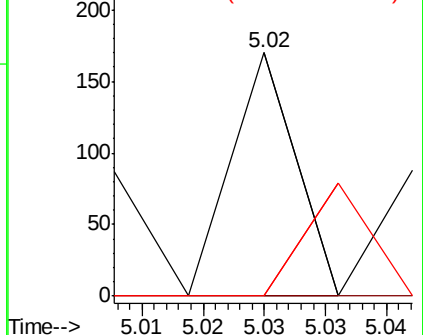
#28

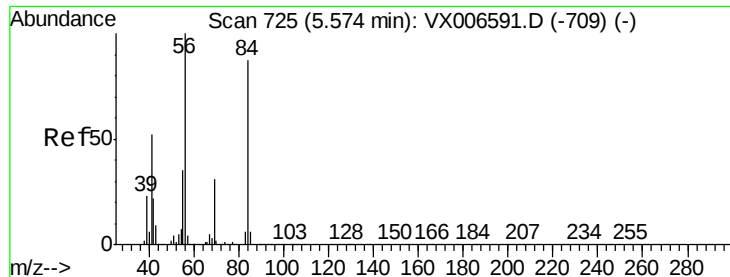
Bromochloromethane
Concen: Below Cal
RT: 5.02 min Scan# 635
Delta R.T. 0.01 min
Lab File: VX006699.D
Acq: 21 Dec 2018 02:28

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	5.4
130	46.8	77.7	116.5#



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

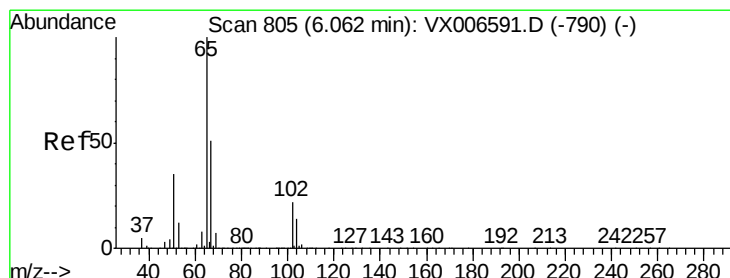
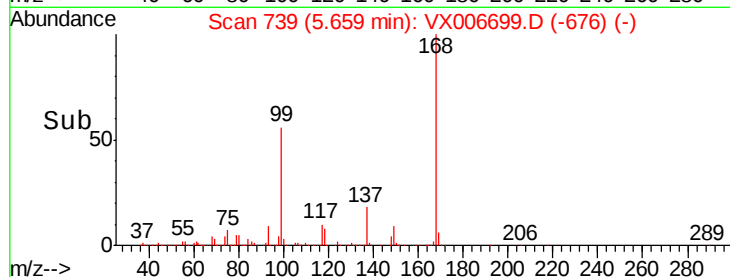
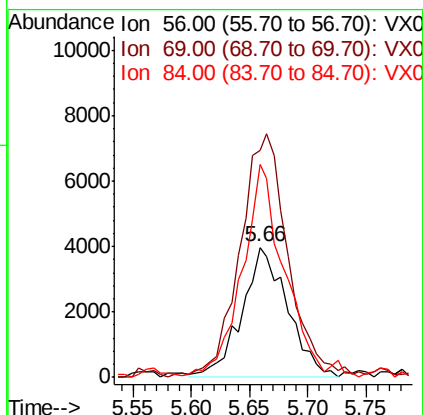
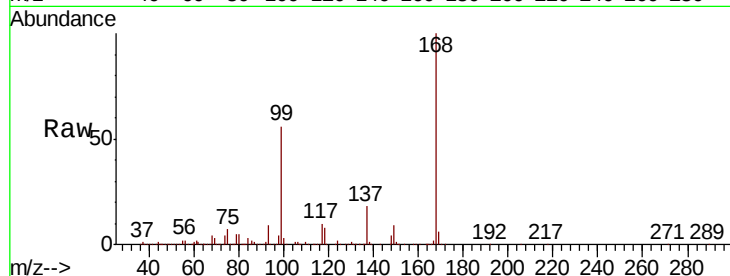




#31
Cyclohexane
Concen: 1.170 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX006699.D
Acq: 21 Dec 2018 02:28

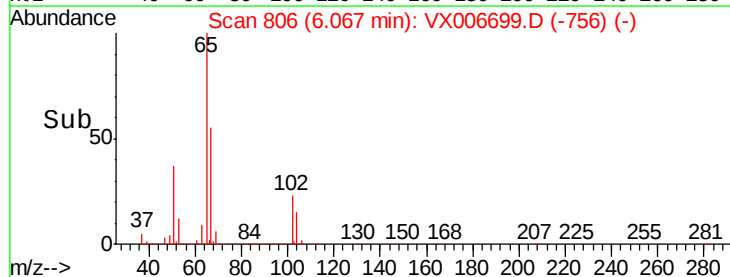
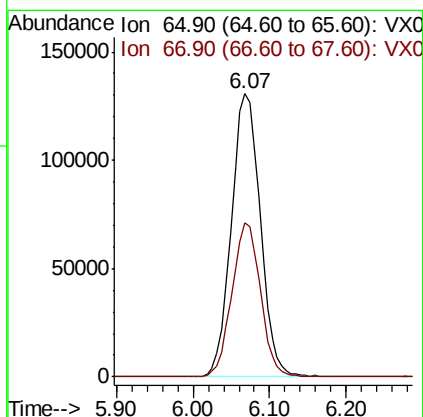
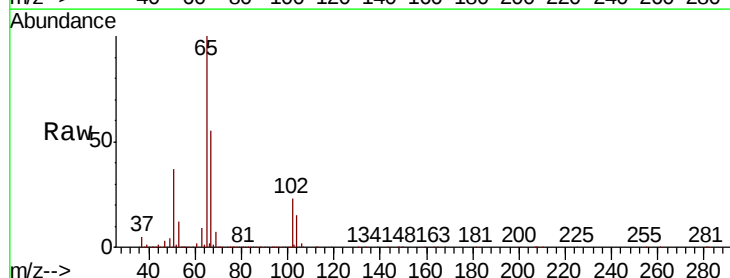
Instrument :
MSVOA_X
ClientSampled :

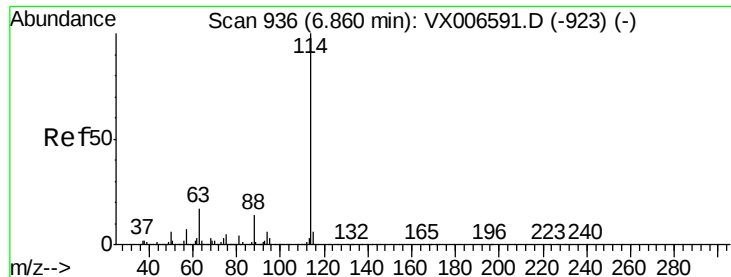
Tot Ion: 56 Resp: 10911
Ion Ratio Lower Upper
56 100
69 172.3 24.4 36.6#
84 160.9 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 50.958 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX006699.D
Acq: 21 Dec 2018 02:28

Tgt Ion: 65 Resp: 343259
Ion Ratio Lower Upper
65 100
67 53.5 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: VX006699.D

Acq: 21 Dec 2018 02:28

Instrument :

MSVOA_X

ClientSampleId :

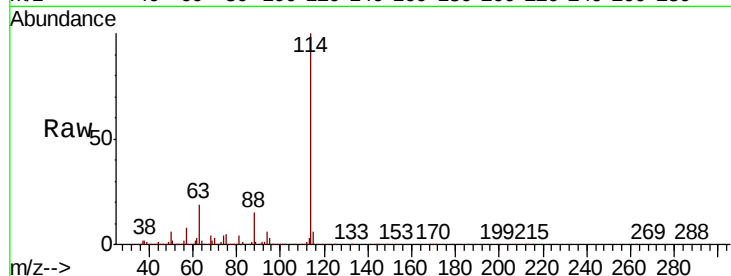
Tot Ion:114 Resp: 986072

Ion Ratio Lower Upper

114 100

63 19.0 0.0 34.8

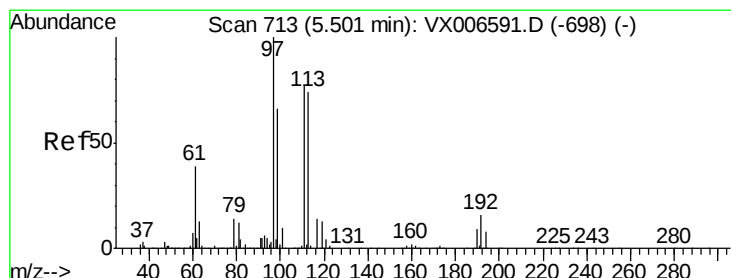
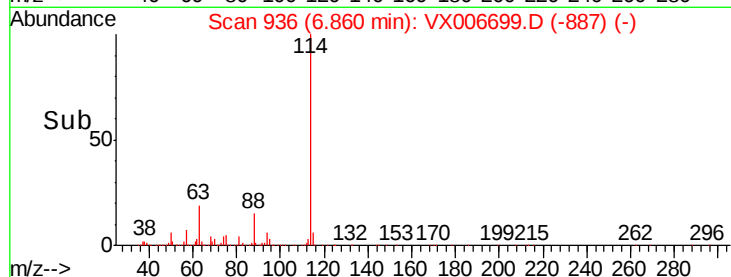
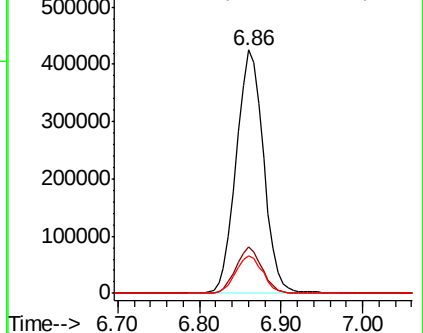
88 15.2 0.0 28.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.822 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006699.D

Acq: 21 Dec 2018 02:28

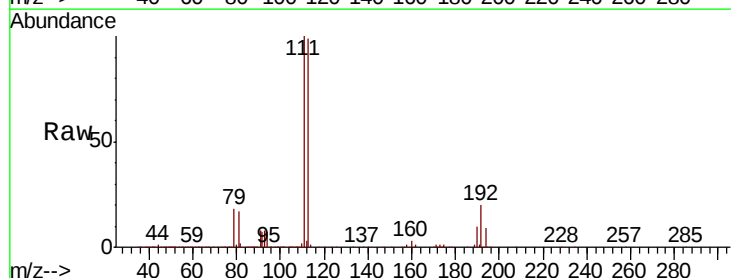
Tgt Ion:113 Resp: 298203

Ion Ratio Lower Upper

113 100

111 101.2 81.6 122.4

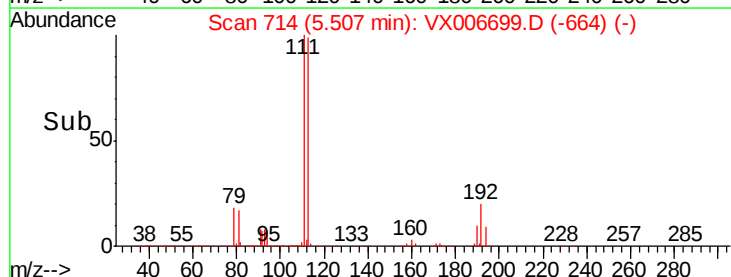
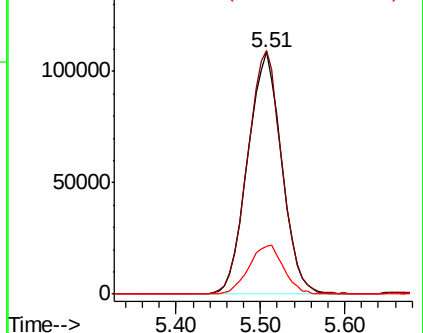
192 20.7 16.7 25.1

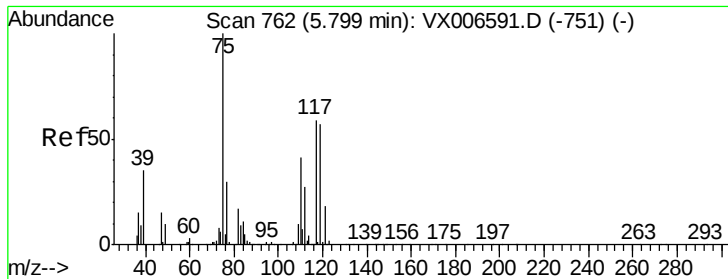


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.012 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006699.D

Acq: 21 Dec 2018 02:28

Instrument :

MSVOA_X

ClientSampleId :

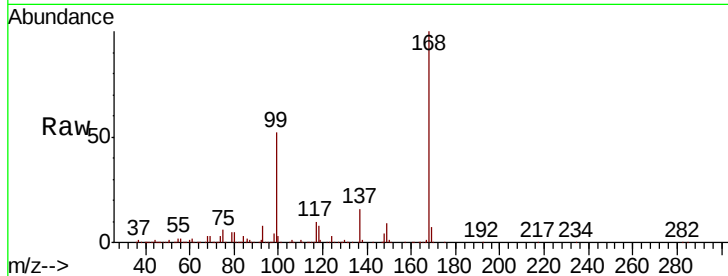
Tot Ion: 75 Resp: 40936

Ion Ratio Lower Upper

75 100

110 11.4 20.2 60.5#

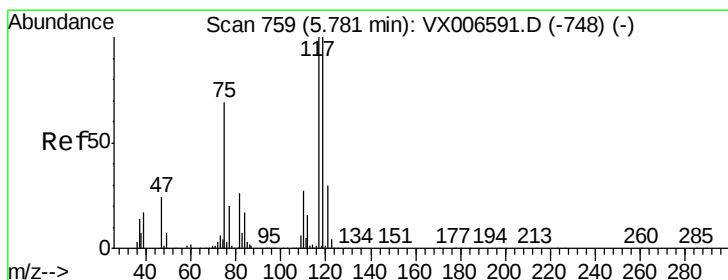
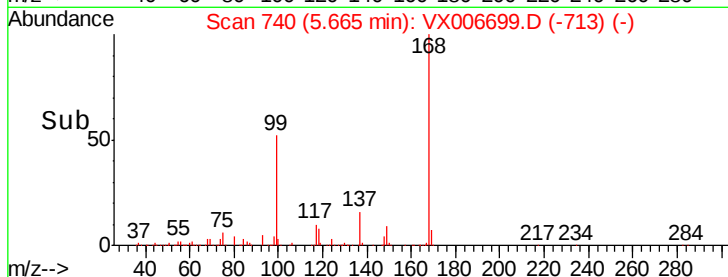
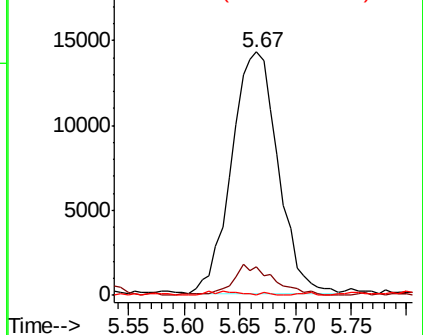
77 0.2 24.8 37.2#



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: 7.463 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006699.D

Acq: 21 Dec 2018 02:28

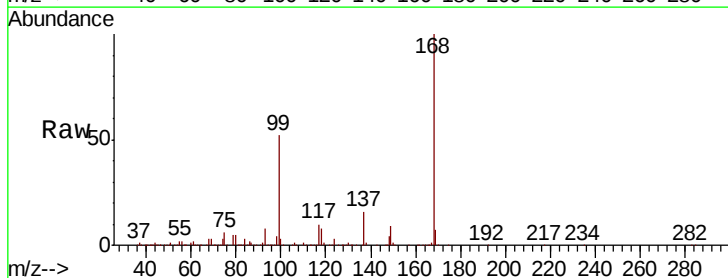
Tgt Ion: 117 Resp: 59233

Ion Ratio Lower Upper

117 100

119 6.3 79.4 119.2#

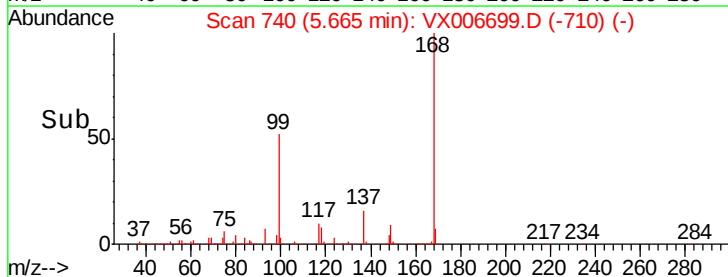
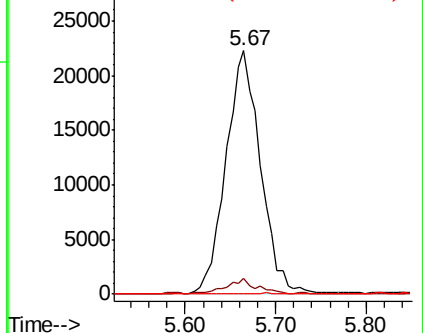
121 0.0 24.0 36.0#

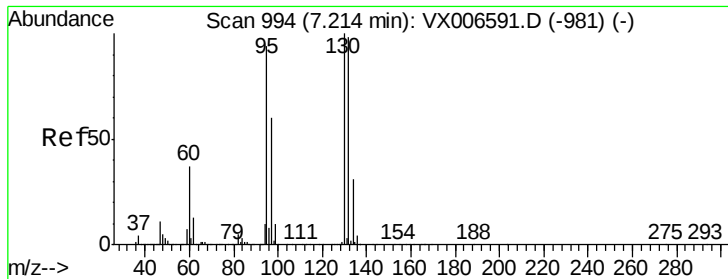


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 7.851 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX006699.D

Acq: 21 Dec 2018 02:28

Instrument :

MSVOA_X

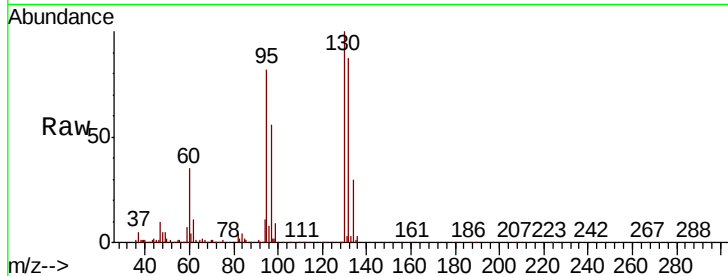
ClientSampleId :

Tot Ion:130 Resp: 58992

Ion Ratio Lower Upper

130 100

95 81.7 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.22

30000

25000

20000

15000

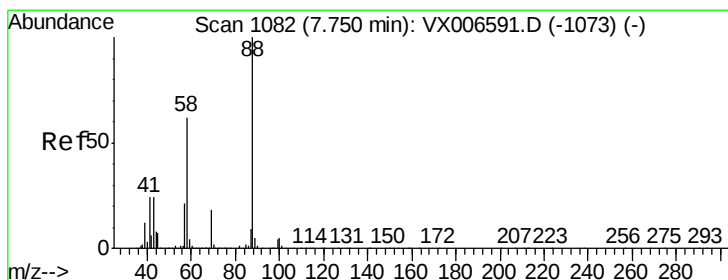
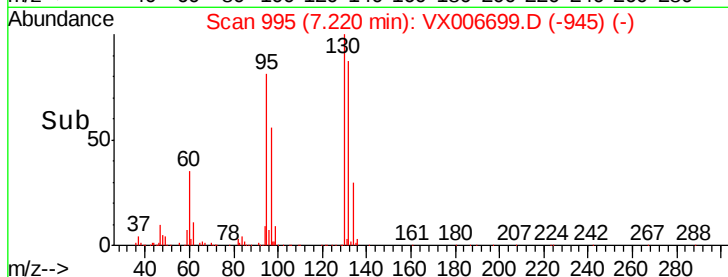
10000

5000

0

7.10 7.15 7.20 7.25 7.30

Time-->



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.75 min Scan# 1082

Delta R.T. 0.00 min

Lab File: VX006699.D

Acq: 21 Dec 2018 02:28

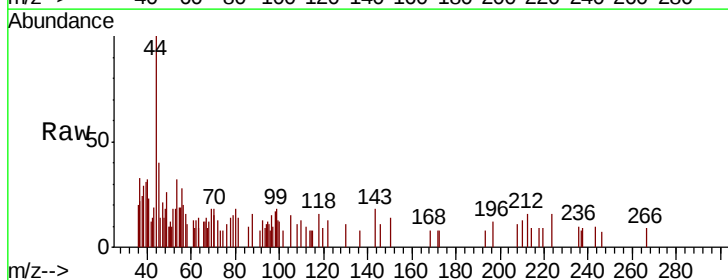
Tgt Ion: 88 Resp: 108

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

58 0.0 51.0 76.4#



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

300

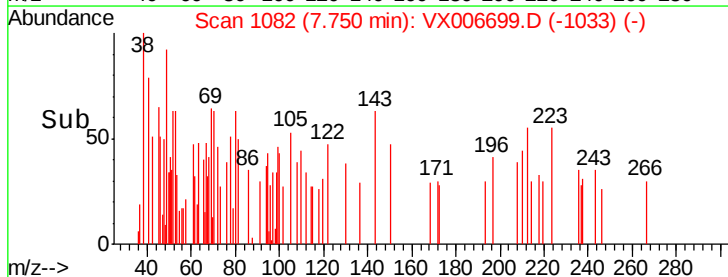
200

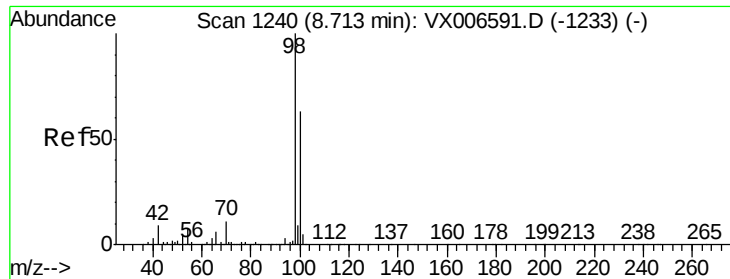
100

0

7.74 7.76

Time-->

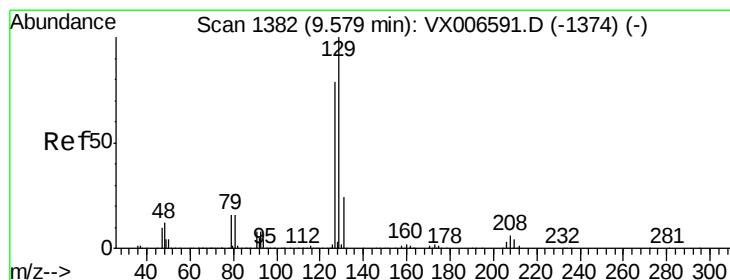
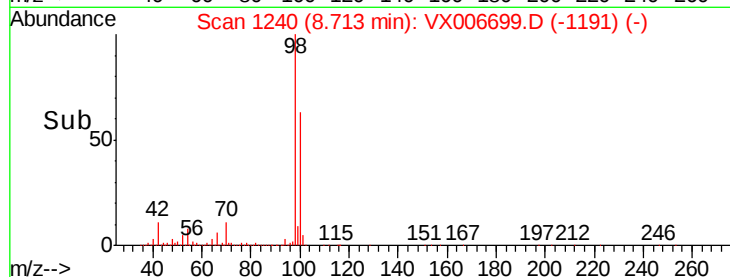
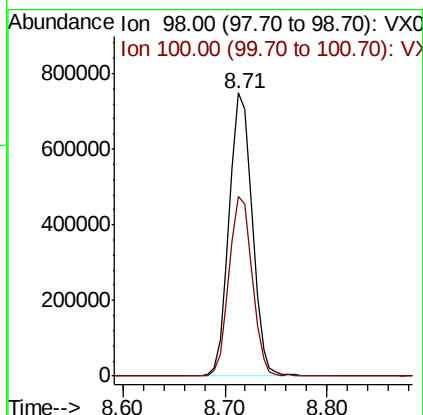
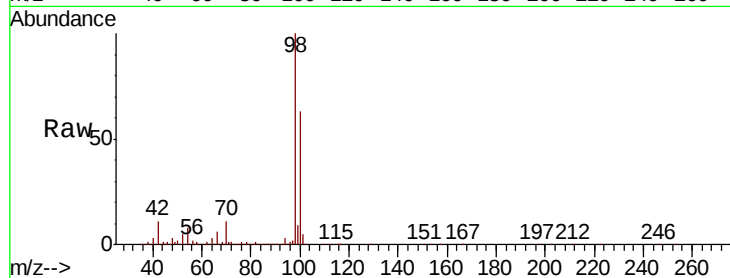




#50
Toluene-d8
Concen: 49.812 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX006699.D
Acq: 21 Dec 2018 02:28

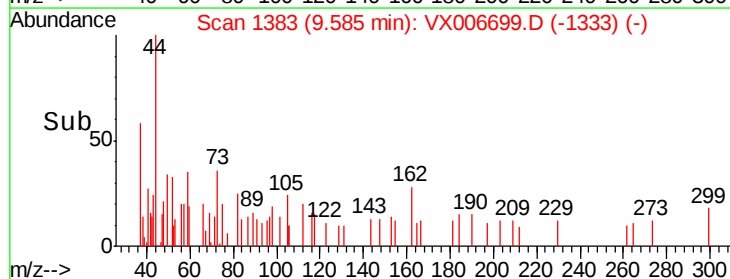
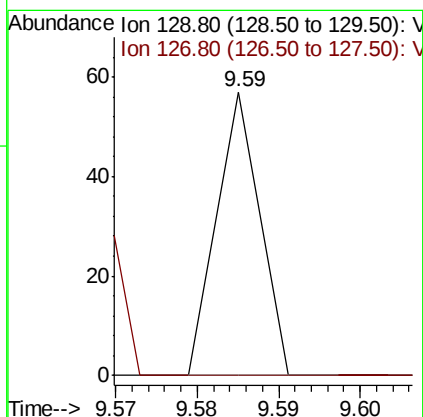
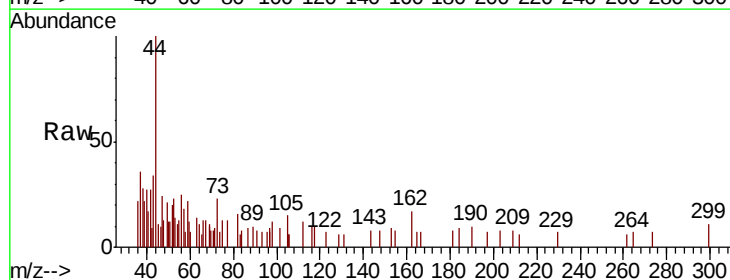
Instrument :
MSVOA_X
ClientSampleId :

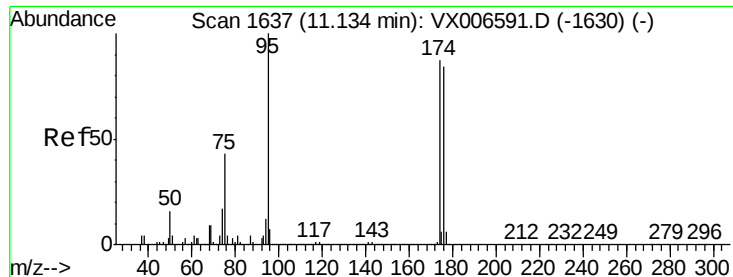
Tot Ion: 98 Resp: 1171030
Ion Ratio Lower Upper
98 100
100 64.0 52.0 78.0



#60
Dibromochloromethane
Concen: 2.327 ug/l
RT: 9.59 min Scan# 1383
Delta R.T. 0.01 min
Lab File: VX006699.D
Acq: 21 Dec 2018 02:28

Tgt Ion: 129 Resp: 21
Ion Ratio Lower Upper
129 100
127 0.0 39.3 117.8#





#62

4-Bromofluorobenzene

Concen: 48.116 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006699.D

Acq: 21 Dec 2018 02:28

Instrument :

MSVOA_X

ClientSampleId :

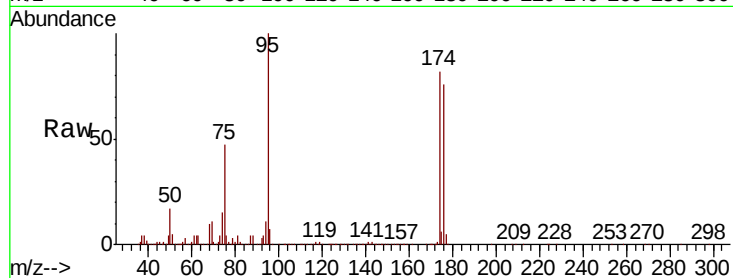
Tot Ion: 95 Resp: 414280

Ion Ratio Lower Upper

95 100

174 88.1 0.0 182.2

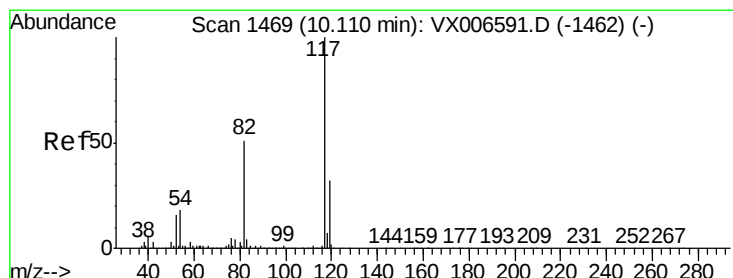
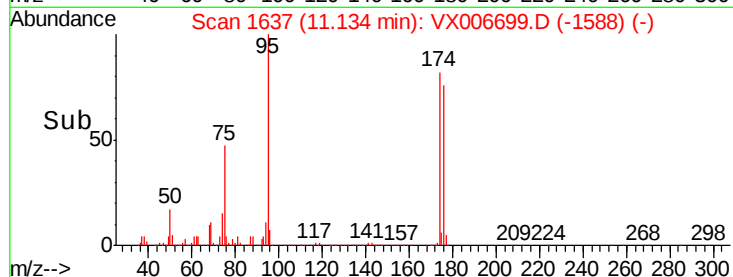
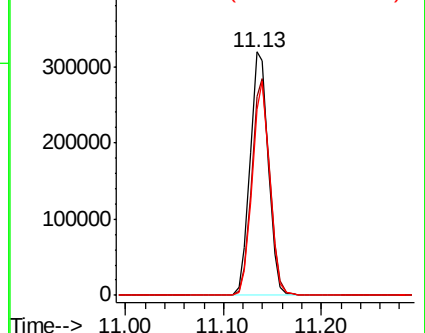
176 84.4 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VX006591.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX006591.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX006591.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX006699.D

Acq: 21 Dec 2018 02:28

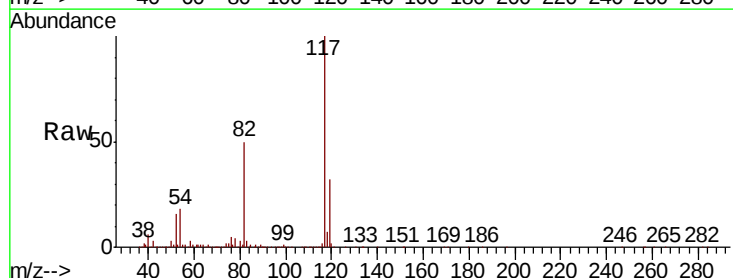
Tgt Ion: 117 Resp: 901133

Ion Ratio Lower Upper

117 100

82 49.7 41.0 61.6

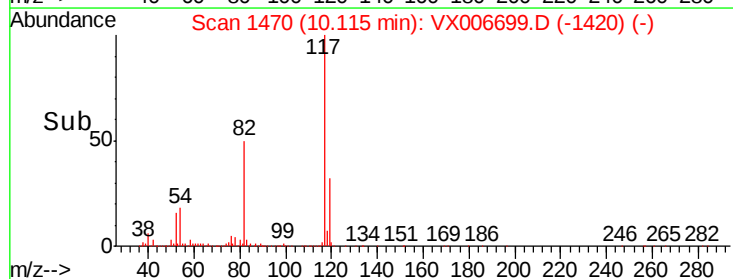
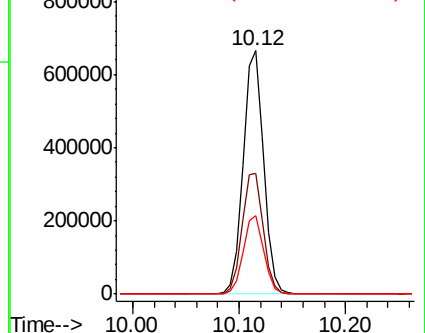
119 32.4 25.4 38.0

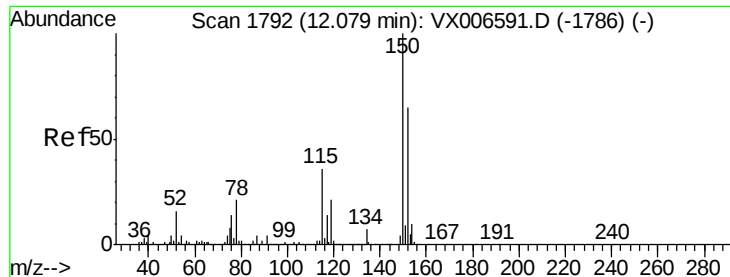


Abundance Ion 116.90 (116.60 to 117.60): VX006591.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX006591.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX006591.D (-1462) (-)



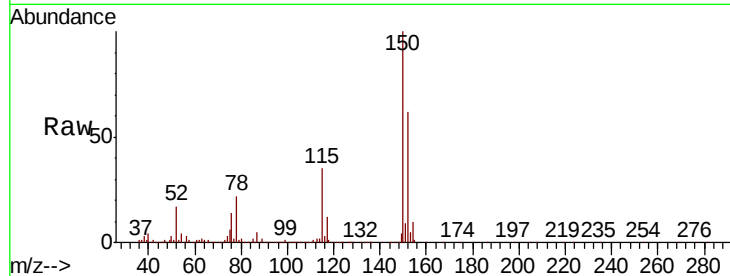


#72

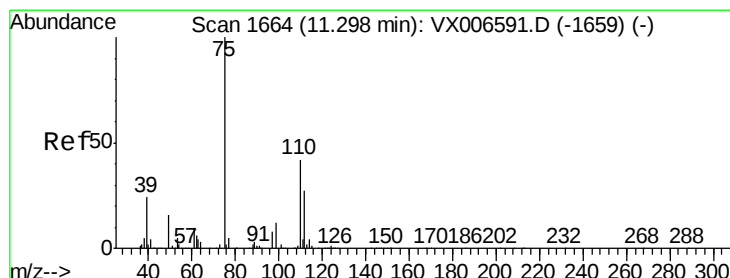
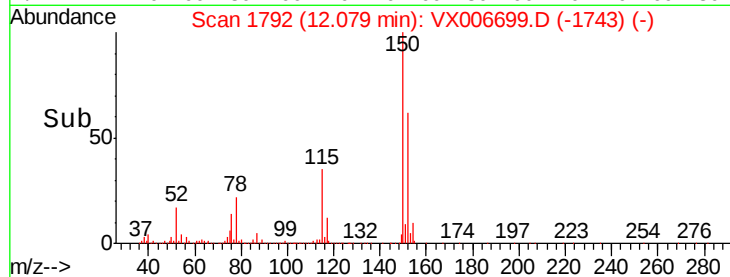
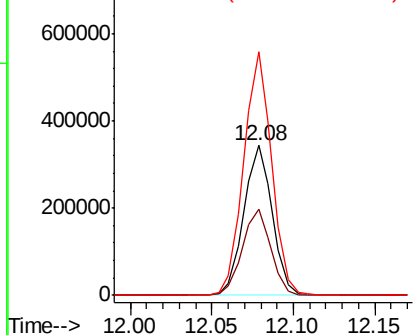
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX006699.D
Acq: 21 Dec 2018 02:28

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	57.2	39.1	117.2
150	159.2	0.0	344.8



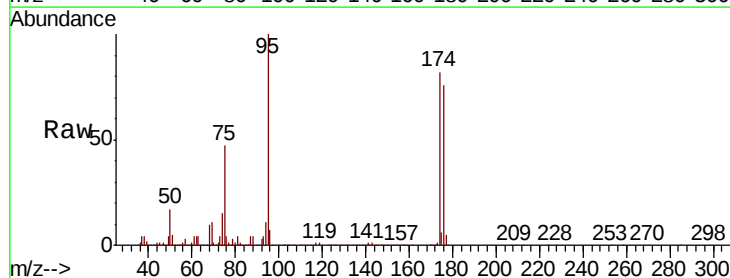
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



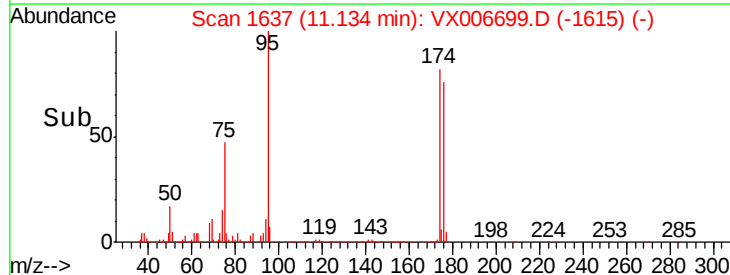
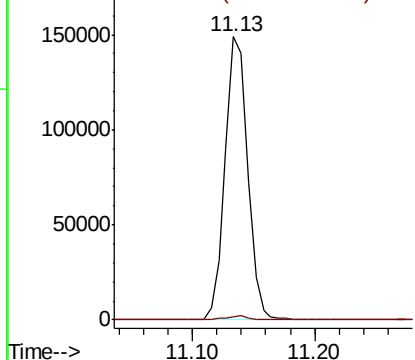
#76

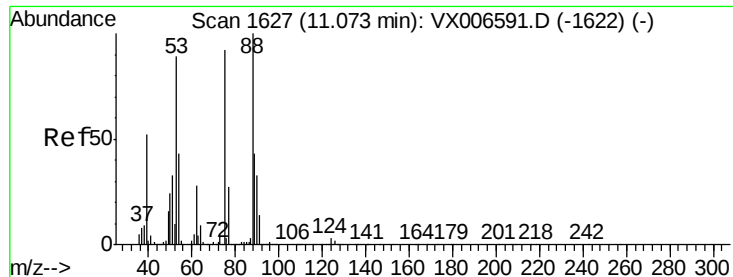
1,2,3-Trichloropropane
Concen: 24.540 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX006699.D
Acq: 21 Dec 2018 02:28

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.5	18.5	55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0

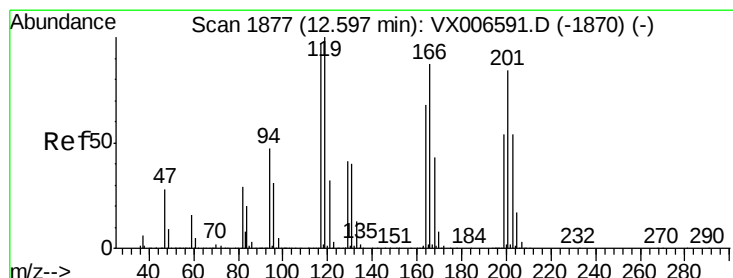
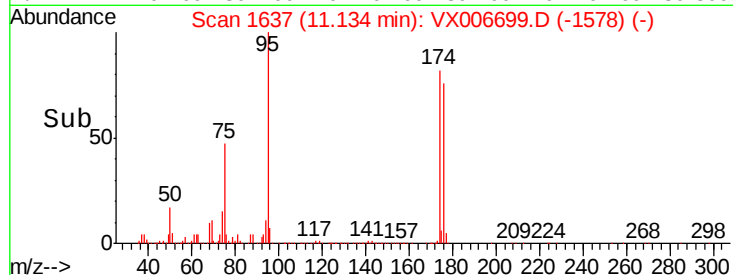
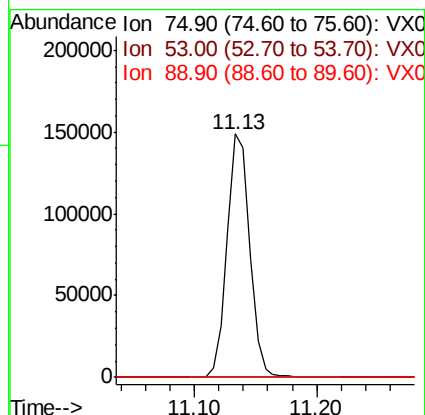
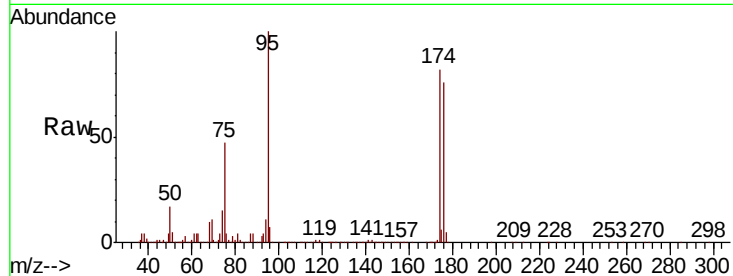




#81
trans-1,4-Dichloro-2-butene
Concen: 72.592 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX006699.D
Acq: 21 Dec 2018 02:28

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 75 Resp: 190754
Ion Ratio Lower Upper
75 100
53 0.1 79.7 119.5#
89 0.0 38.0 57.0#



#90
Hexachloroethane
Concen: 3.304 ug/l
RT: 12.52 min Scan# 1865
Delta R.T. -0.07 min
Lab File: VX006699.D
Acq: 21 Dec 2018 02:28

Tgt Ion: 117 Resp: 46
Ion Ratio Lower Upper
117 100
201 95.7 42.9 128.7

