

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061818\
 Data File : VX002700.D
 Acq On : 19 Jun 2018 01:27
 Operator : JC/MD
 Sample : J3537-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 19 05:12:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	211354	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	301586	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	276113	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	152237	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	159261	49.59	ug/l	0.00
Spiked Amount			Recovery	=	99.18%	
35) Dibromofluoromethane	5.51	113	124199	51.60	ug/l	0.00
Spiked Amount			Recovery	=	103.20%	
50) Toluene-d8	8.72	98	477472	52.24	ug/l	0.00
Spiked Amount			Recovery	=	104.48%	
62) 4-Bromofluorobenzene	11.14	95	163070	47.09	ug/l	0.00
Spiked Amount			Recovery	=	94.18%	

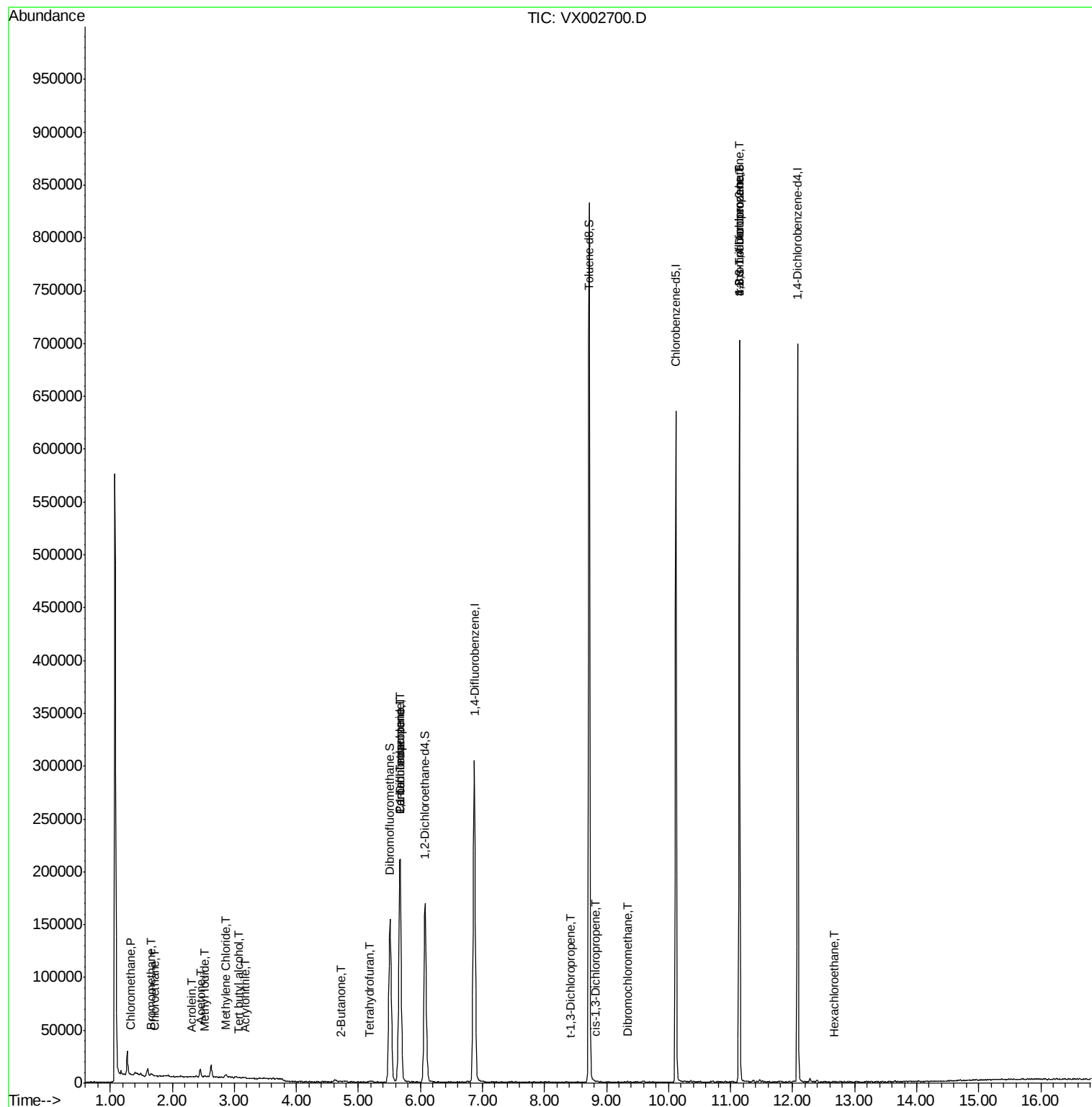
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	649	0.24	ug/l #	87
5) Bromomethane	1.66	94	1578	0.94	ug/l	88
6) Chloroethane	1.71	64	593	0.32	ug/l #	49
10) Methyl Iodide	2.52	142	1354	5.54	ug/l #	92
11) Tert butyl alcohol	3.07	59	204	0.31	ug/l #	1
13) Acrolein	2.31	56	68	7.08	ug/l #	1
15) Acrylonitrile	3.16	53	550	0.38	ug/l #	41
16) Acetone	2.45	43	9269	6.54	ug/l	96
20) Methylene Chloride	2.86	84	1422	0.49	ug/l #	66
25) 2-Butanone	4.73	43	893	0.48	ug/l #	52
29) Tetrahydrofuran	5.17	42	353	0.29	ug/l #	63
36) 1,1-Dichloropropene	5.67	75	14601	4.56	ug/l #	50
38) Carbon Tetrachloride	5.67	117	19306	6.05	ug/l #	15
53) t-1,3-Dichloropropene	8.42	75	22	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	8.82	75	28	3.22	ug/l #	69
60) Dibromochloromethane	9.34	129	110	3.80	ug/l #	11
76) 1,2,3-Trichloropropane	11.14	75	87362	30.41	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	87362	93.35	ug/l #	6
90) Hexachloroethane	12.67	117	22	2.64	ug/l #	1

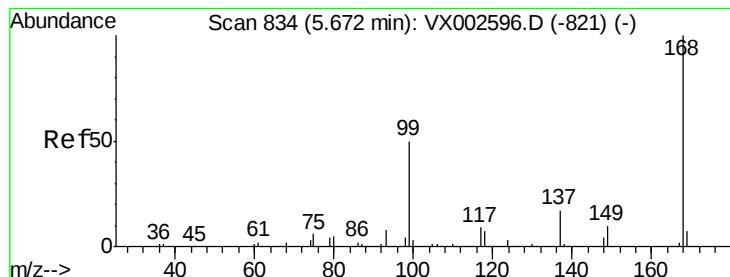
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:37:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX002700.D

Acq: 19 Jun 2018 01:27

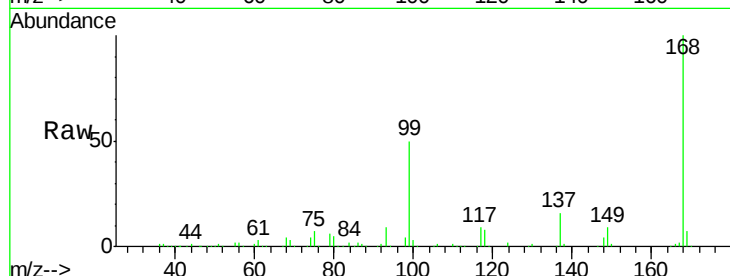
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 211354

Ion Ratio Lower Upper

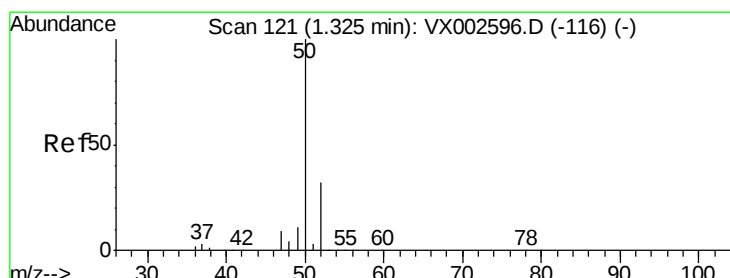
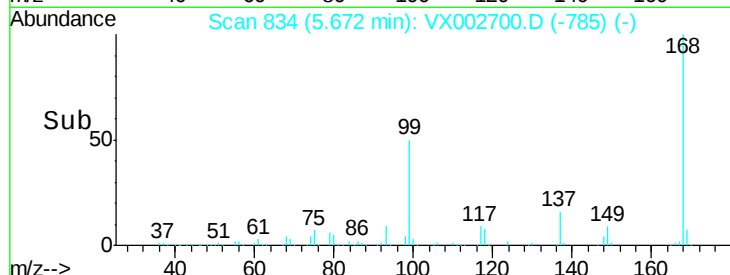
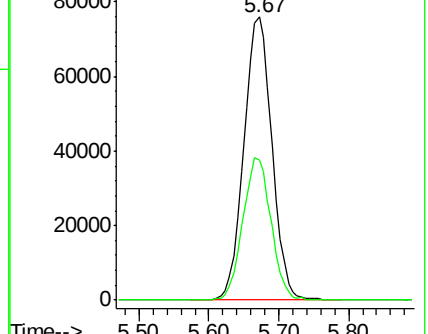
168 100

99 49.7 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.24 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002700.D

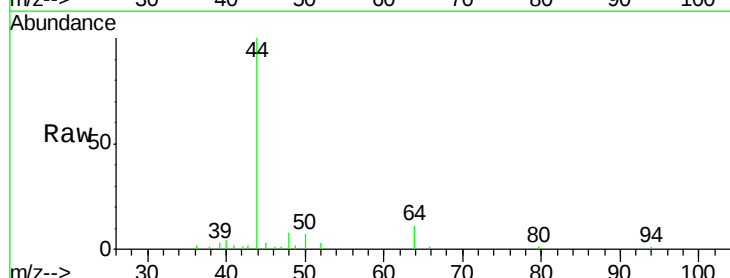
Acq: 19 Jun 2018 01:27

Tgt Ion: 50 Resp: 649

Ion Ratio Lower Upper

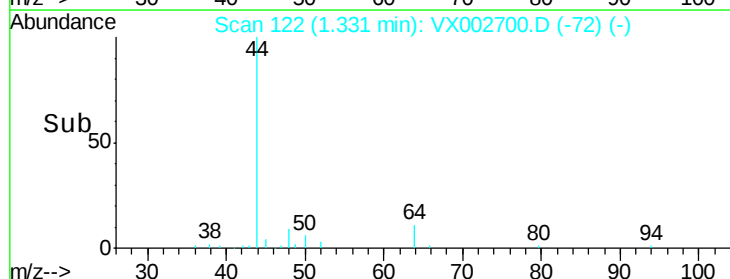
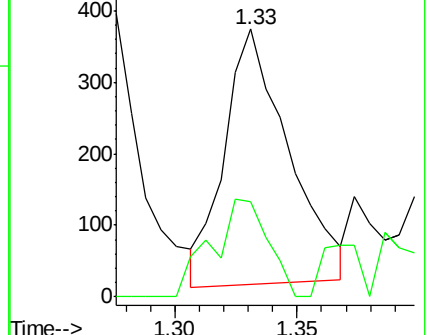
50 100

52 25.0 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.94 ug/l

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX002700.D

Acq: 19 Jun 2018 01:27

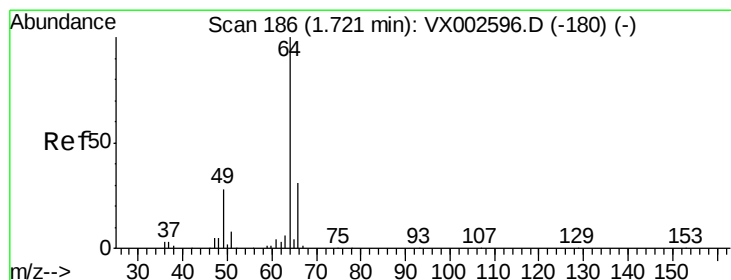
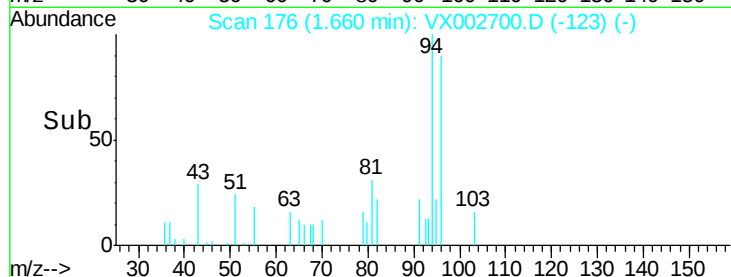
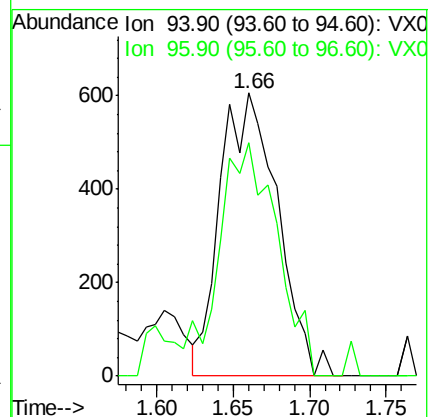
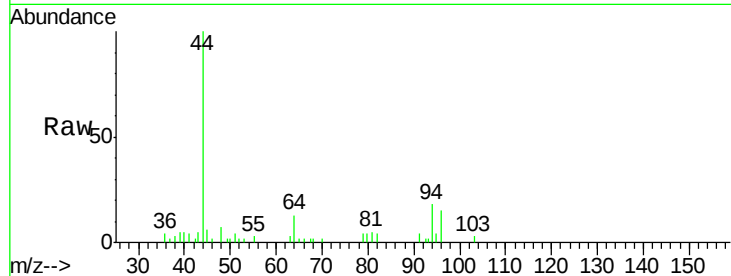
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 94 Resp: 1578

Ion Ratio Lower Upper

94 100

96 82.3 74.9 112.3



#6

Chloroethane

Concen: 0.32 ug/l

RT: 1.71 min Scan# 184

Delta R.T. -0.01 min

Lab File: VX002700.D

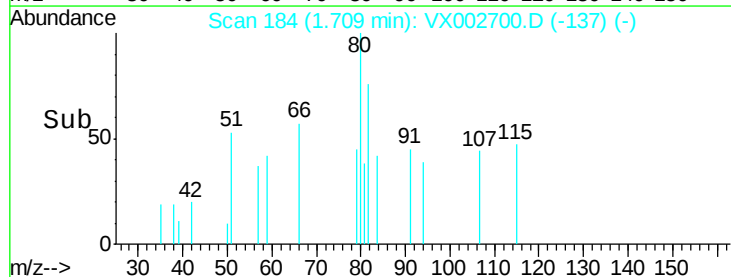
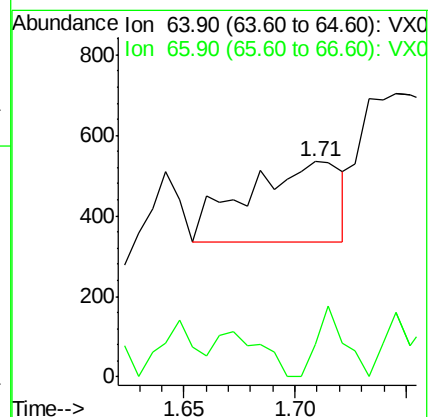
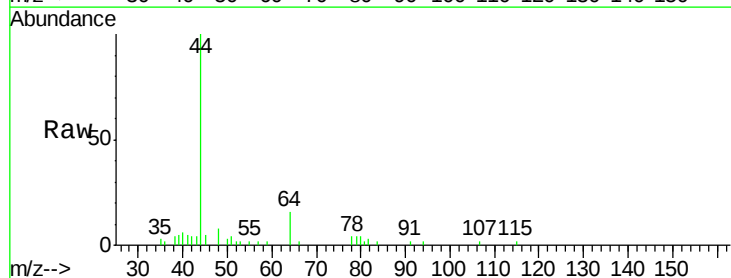
Acq: 19 Jun 2018 01:27

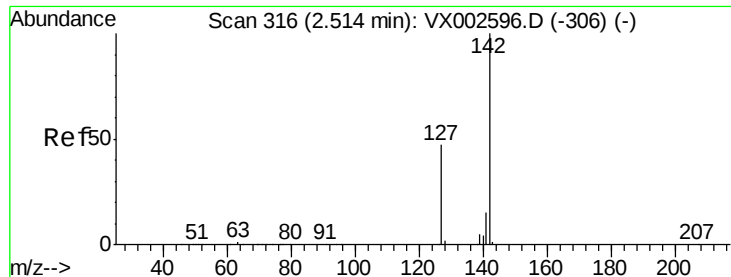
Tgt Ion: 64 Resp: 593

Ion Ratio Lower Upper

64 100

66 3.5 25.5 38.3#

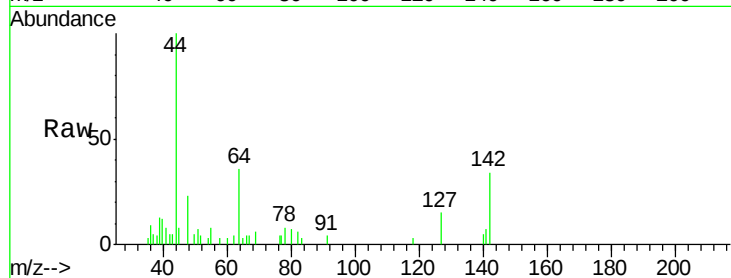




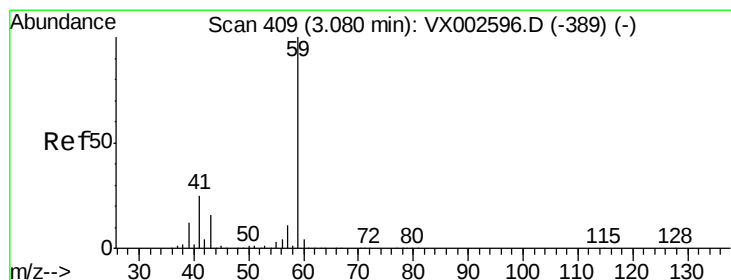
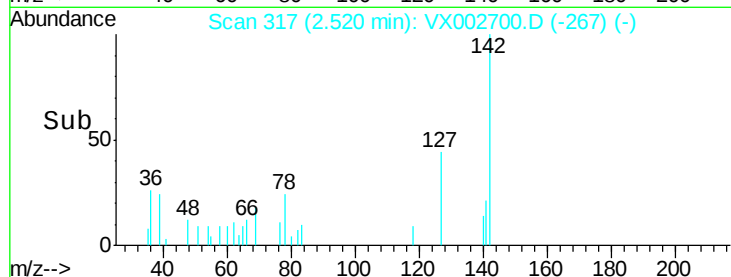
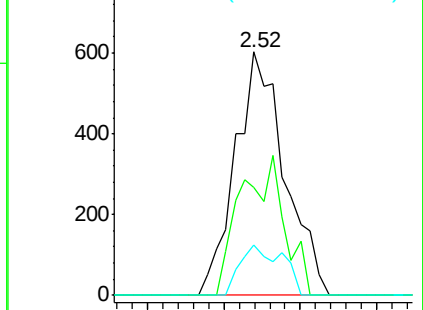
#10
Methvl Iodide
Concen: 5.54 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002700.D
Acq: 19 Jun 2018 01:27

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:142 Resp: 1354
Ion Ratio Lower Upper
142 100
127 51.2 36.6 55.0
141 17.7 11.3 16.9#

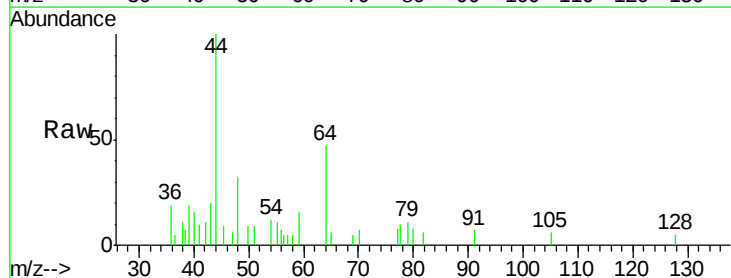


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

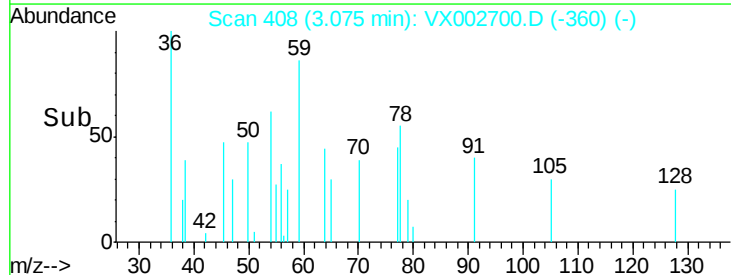
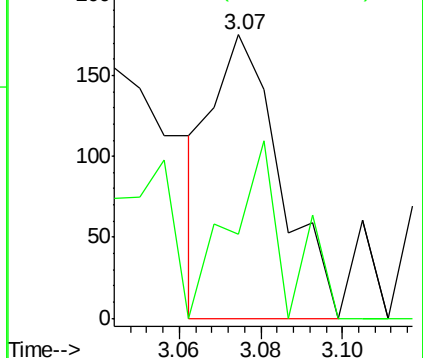


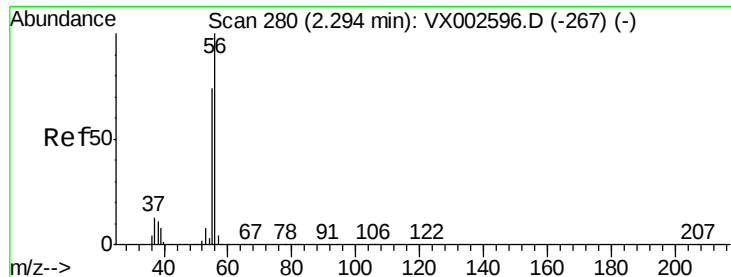
#11
Tert butyl alcohol
Concen: 0.31 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002700.D
Acq: 19 Jun 2018 01:27

Tgt Ion: 59 Resp: 204
Ion Ratio Lower Upper
59 100
57 51.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 7.08 ug/l

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX002700.D

Acq: 19 Jun 2018 01:27

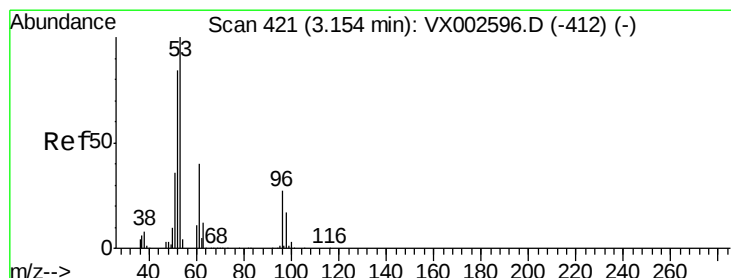
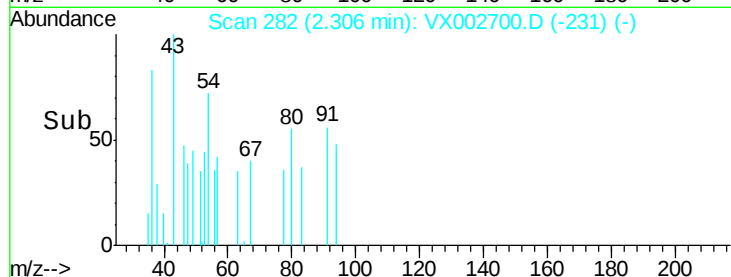
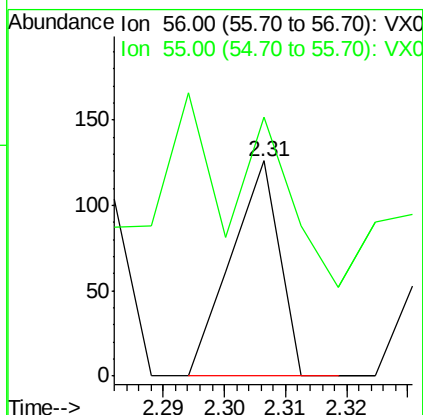
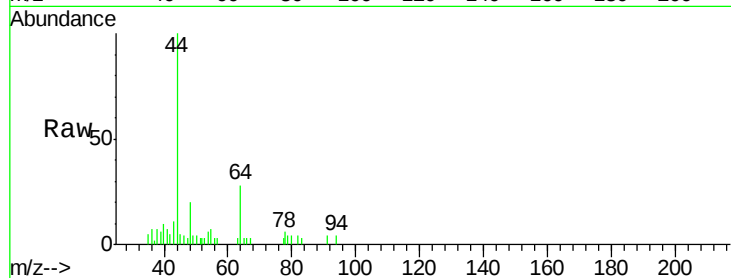
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 68

Ion Ratio Lower Upper

56 100

55 169.1 57.0 85.4#



#15

Acrylonitrile

Concen: 0.38 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX002700.D

Acq: 19 Jun 2018 01:27

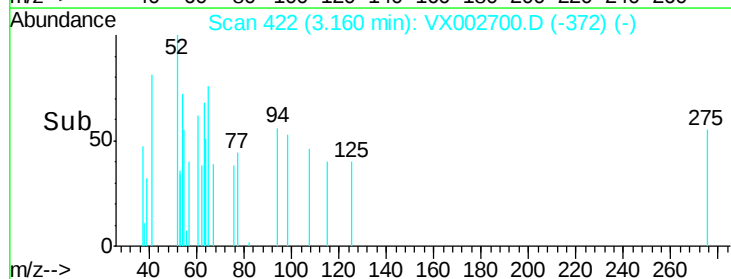
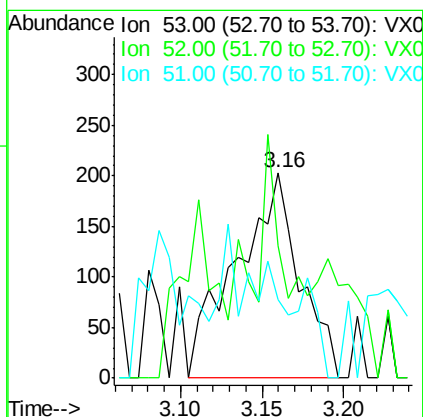
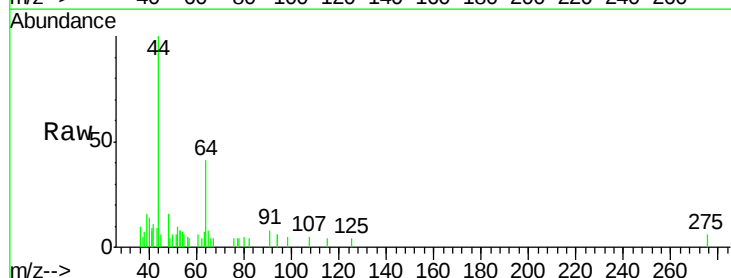
Tgt Ion: 53 Resp: 550

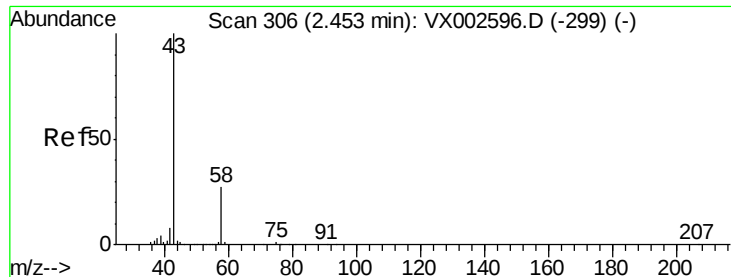
Ion Ratio Lower Upper

53 100

52 31.6 66.7 100.1#

51 0.0 29.9 44.9#





#16

Acetone

Concen: 6.54 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002700.D

Acq: 19 Jun 2018 01:27

Instrument :

MSVOA_X

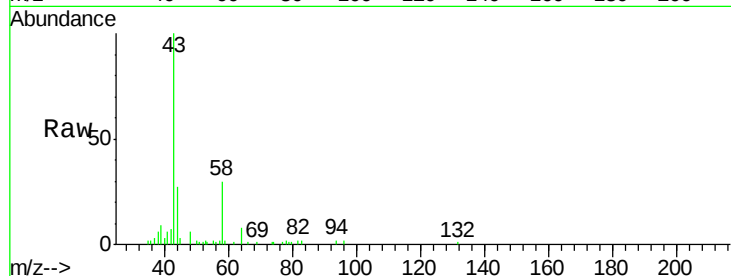
ClientSampleId :

Tot Ion: 43 Resp: 9269

Ion Ratio Lower Upper

43 100

58 29.8 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

6000

5000

4000

3000

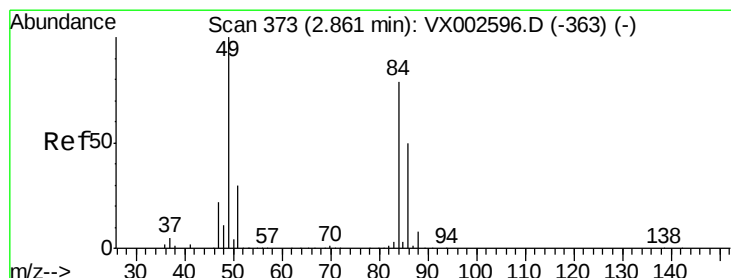
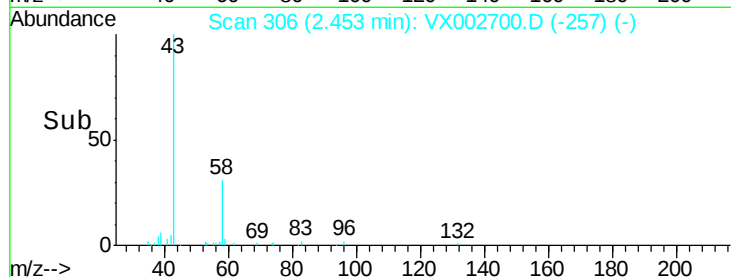
2000

1000

0

Time-->

2.35 2.40 2.45 2.50 2.55



#20

Methylene Chloride

Concen: 0.49 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX002700.D

Acq: 19 Jun 2018 01:27

Tgt Ion: 84 Resp: 1422

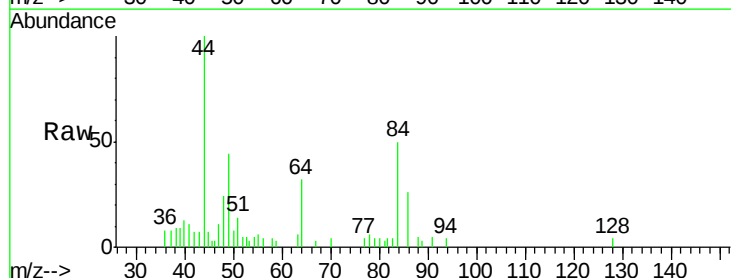
Ion Ratio Lower Upper

84 100

49 81.8 107.8 161.6#

51 22.1 32.8 49.2#

86 52.6 52.5 78.7



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

1200

1000

800

600

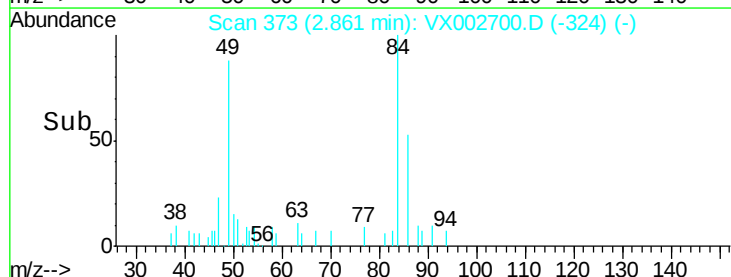
400

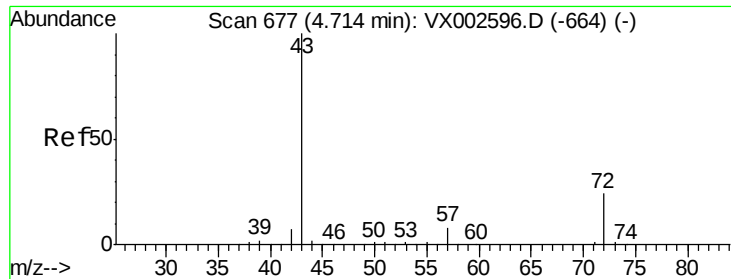
200

0

Time-->

2.80 2.85 2.90





#25

2-Butanone

Concen: 0.48 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.01 min

Lab File: VX002700.D

Acq: 19 Jun 2018 01:27

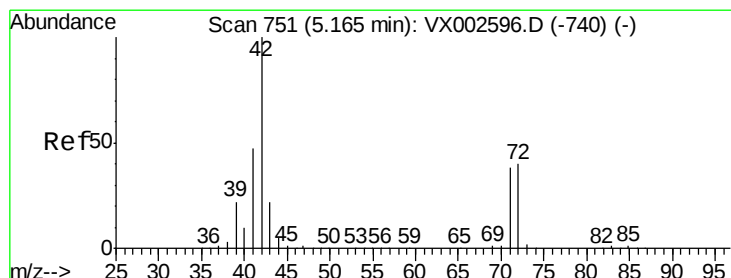
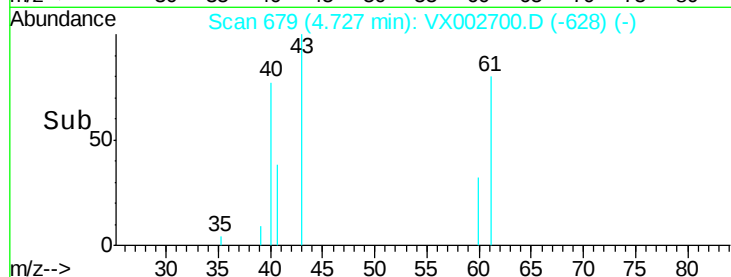
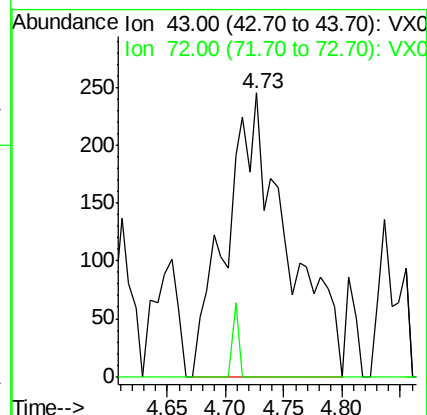
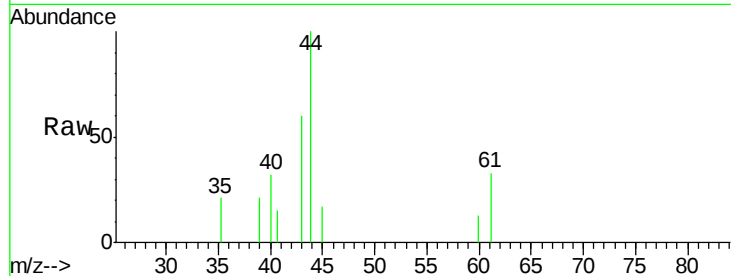
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 893

Ion Ratio Lower Upper

43 100

72 0.0 18.5 27.7#



#29

Tetrahydrofuran

Concen: 0.29 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX002700.D

Acq: 19 Jun 2018 01:27

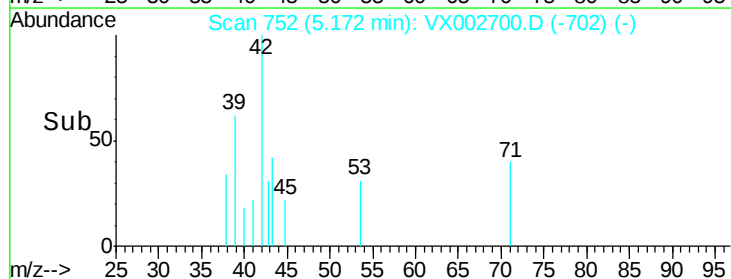
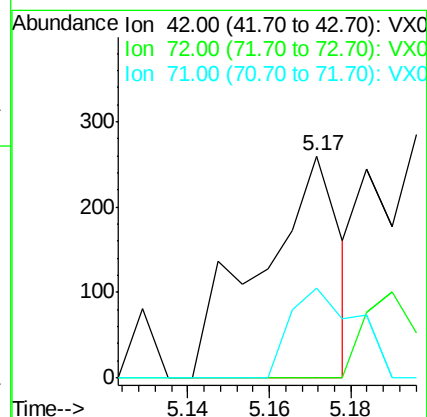
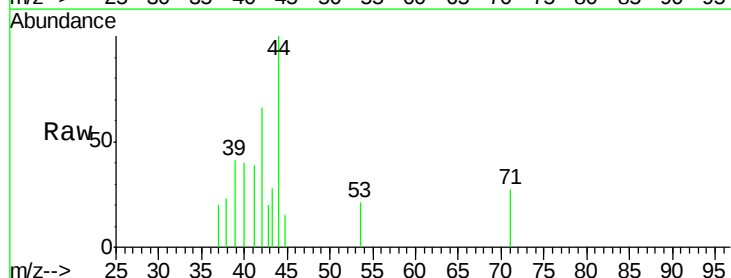
Tgt Ion: 42 Resp: 353

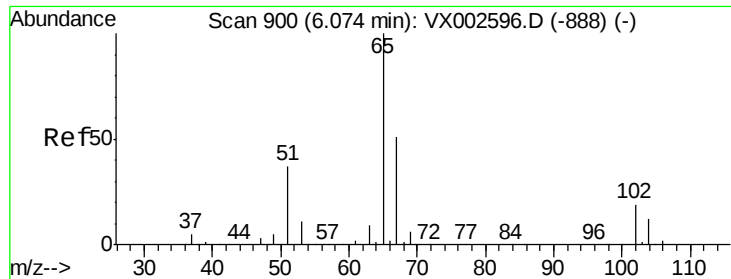
Ion Ratio Lower Upper

42 100

72 0.0 32.0 48.0#

71 33.7 30.1 45.1

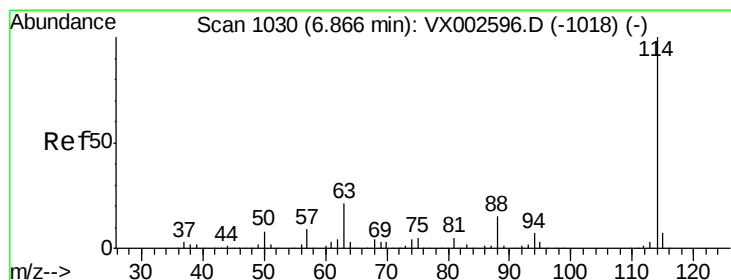
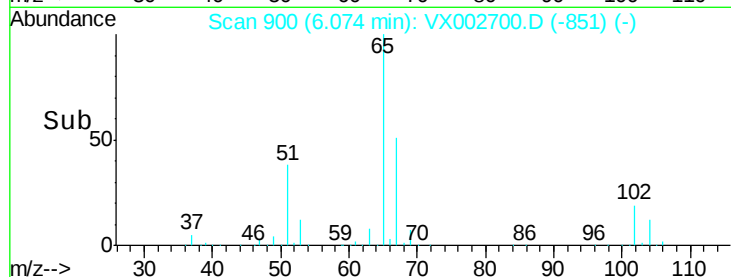
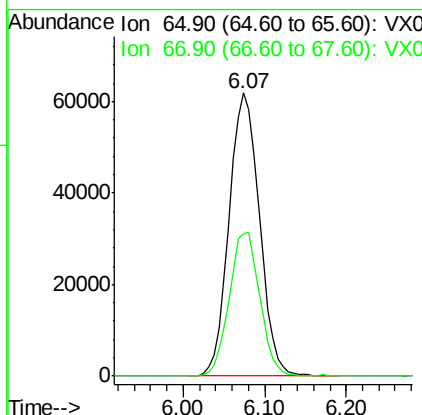
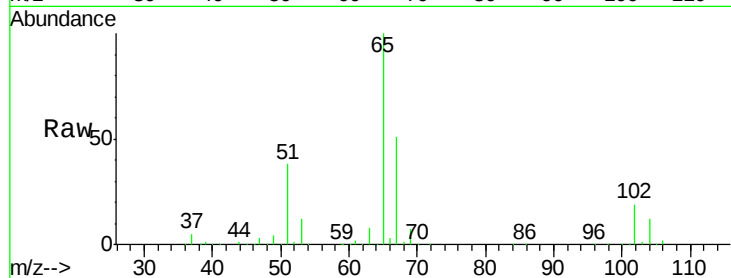




#33
 1,2-Dichloroethane-d4
 Concen: 49.59 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002700.D
 Acq: 19 Jun 2018 01:27

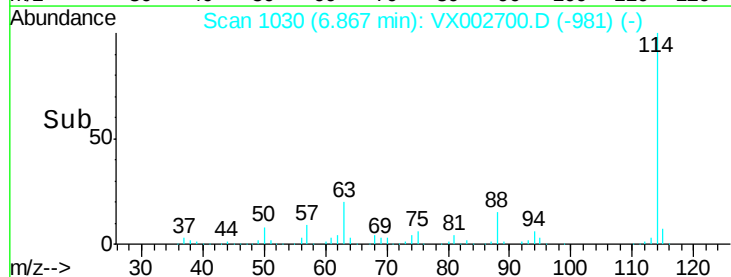
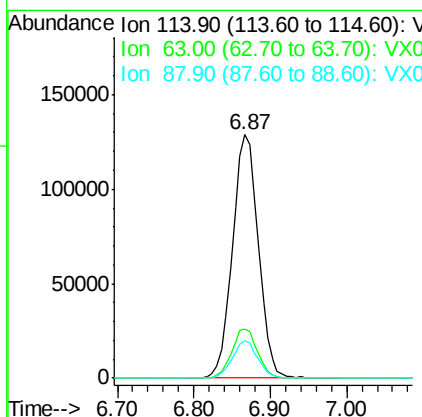
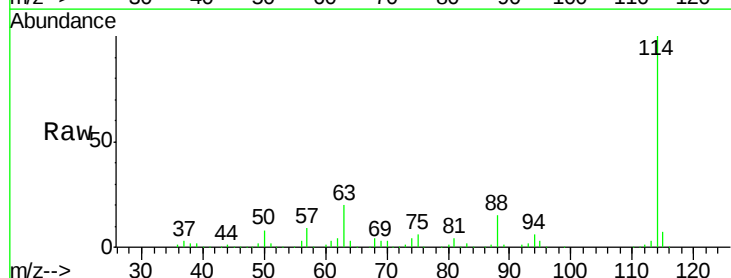
Instrument :
 MSVOA_X
 ClientSampleId :

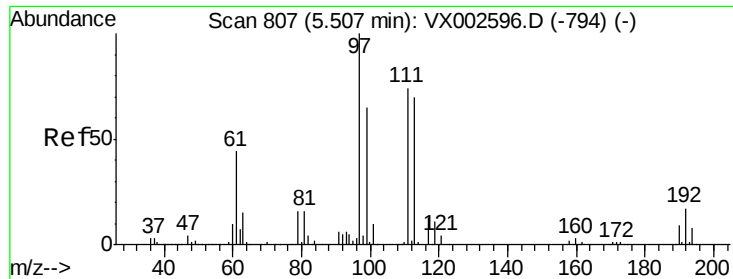
Tot Ion: 65 Resp: 159261
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002700.D
 Acq: 19 Jun 2018 01:27

Tgt Ion: 114 Resp: 301586
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 41.4
 88 15.4 0.0 30.0





#35

Dibromofluoromethane

Concen: 51.60 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002700.D

Acq: 19 Jun 2018 01:27

Instrument :

MSVOA_X

ClientSampleId :

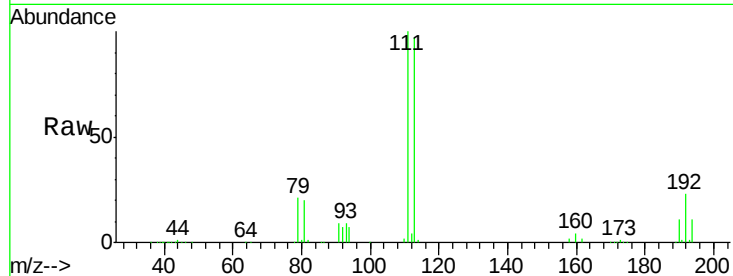
Tot Ion:113 Resp: 124199

Ion Ratio Lower Upper

113 100

111 102.7 81.4 122.0

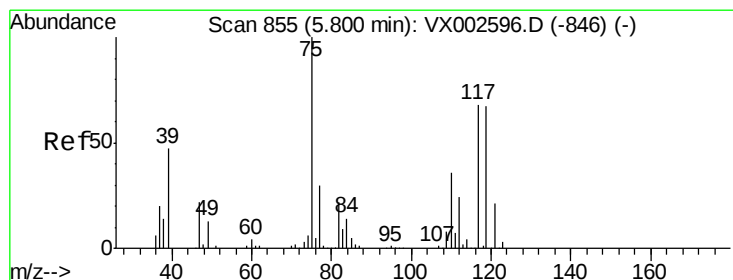
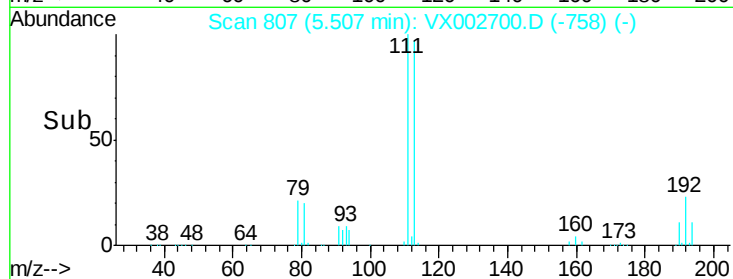
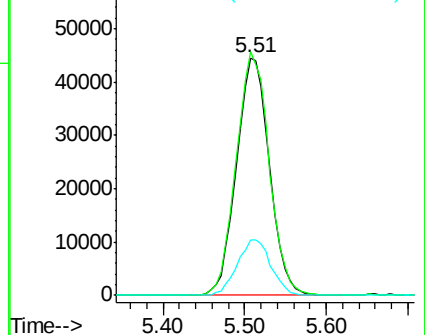
192 24.0 19.1 28.7



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: 4.56 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002700.D

Acq: 19 Jun 2018 01:27

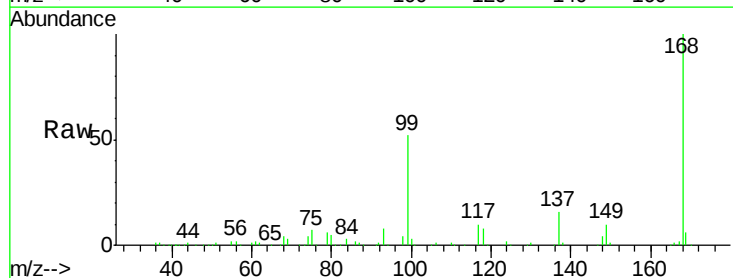
Tgt Ion: 75 Resp: 14601

Ion Ratio Lower Upper

75 100

110 10.1 18.1 54.4#

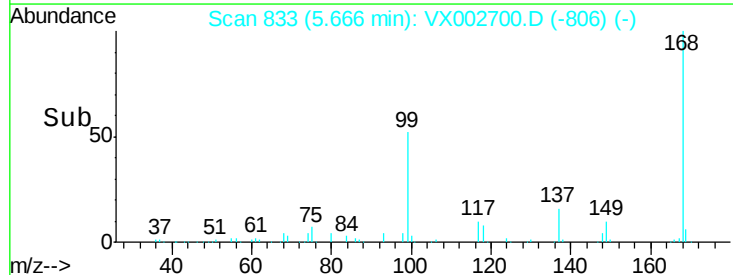
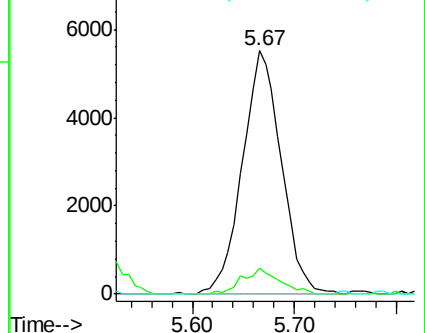
77 0.0 24.3 36.5#

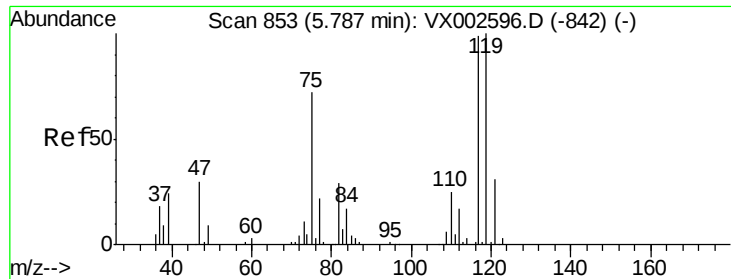


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.05 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002700.D

Acq: 19 Jun 2018 01:27

Instrument :

MSVOA_X

ClientSampled :

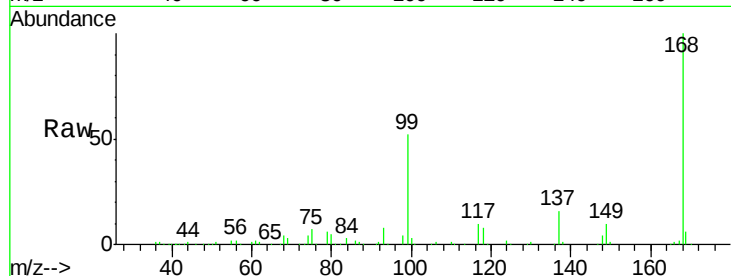
Tot Ion:117 Resp: 19306

Ion Ratio Lower Upper

117 100

119 4.6 77.4 116.0#

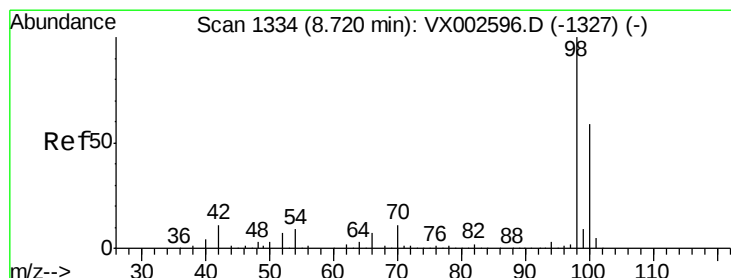
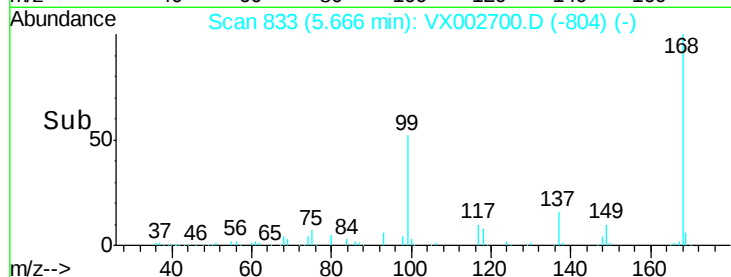
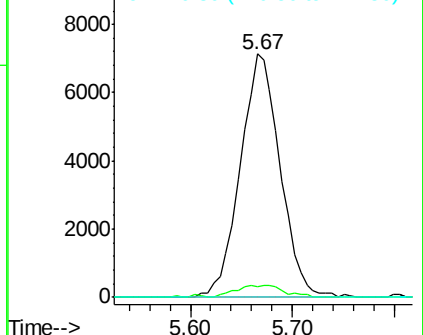
121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 52.24 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002700.D

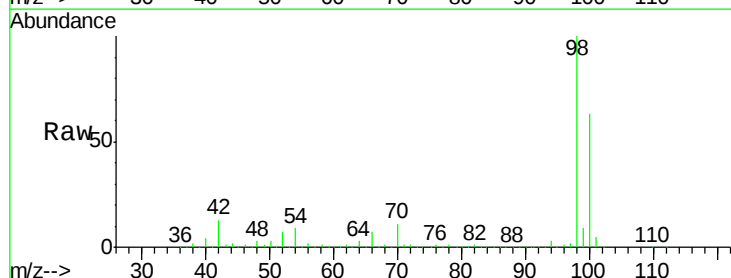
Acq: 19 Jun 2018 01:27

Tgt Ion: 98 Resp: 477472

Ion Ratio Lower Upper

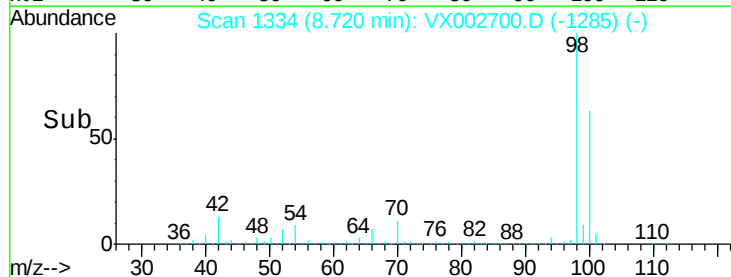
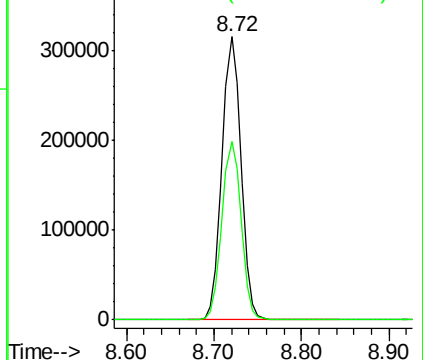
98 100

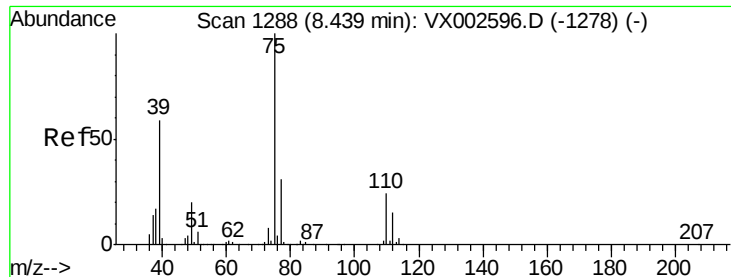
100 63.3 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.42 min Scan# 1284

Delta R.T. -0.02 min

Lab File: VX002700.D

Acq: 19 Jun 2018 01:27

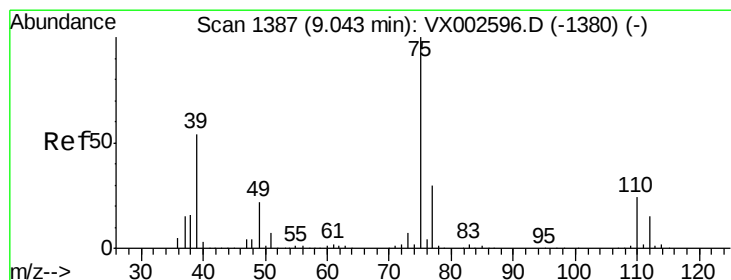
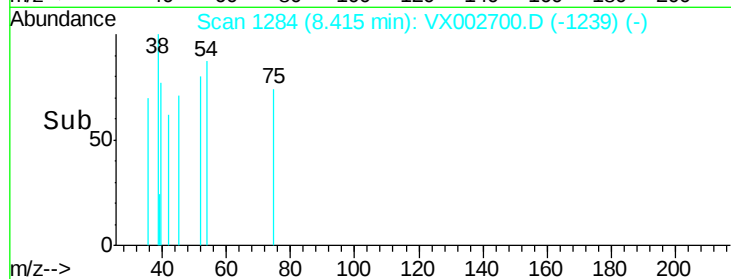
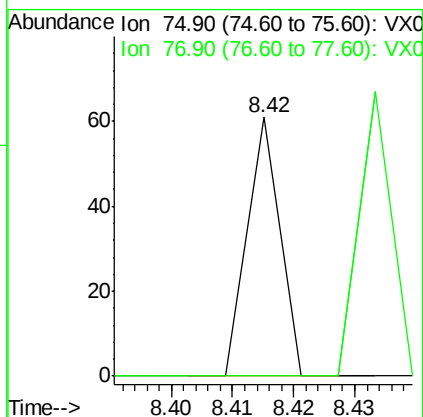
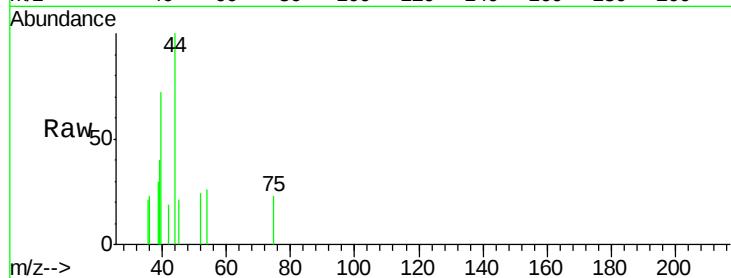
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 75 Resp: 22

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#



#54

cis-1,3-Dichloropropene

Concen: 3.22 ug/l

RT: 8.82 min Scan# 1351

Delta R.T. -0.22 min

Lab File: VX002700.D

Acq: 19 Jun 2018 01:27

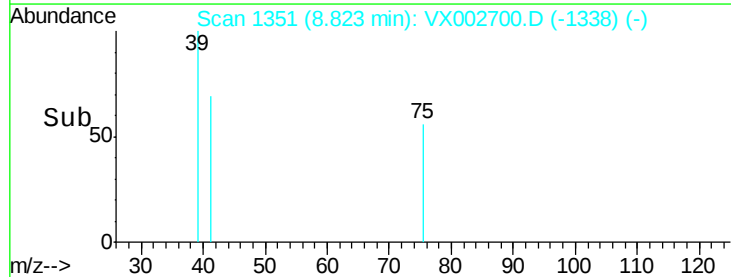
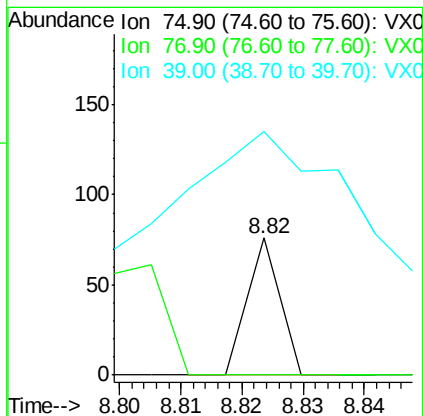
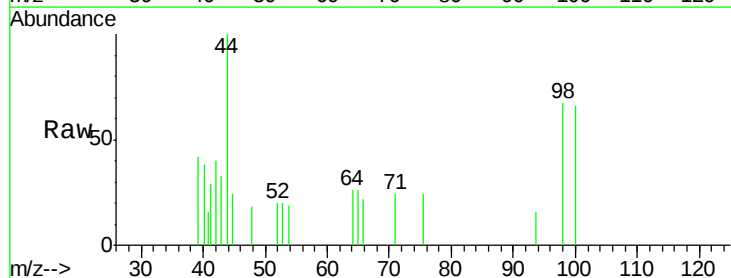
Tgt Ion: 75 Resp: 28

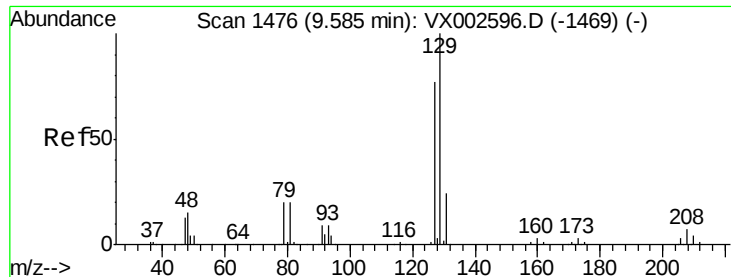
Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 42.1 42.4 63.6#

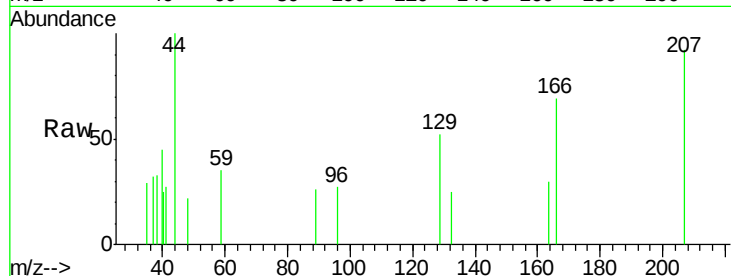




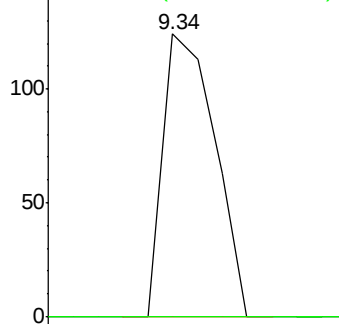
#60
Dibromochloromethane
Concen: 3.80 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.25 min
Lab File: VX002700.D
Acq: 19 Jun 2018 01:27

Instrument :
MSVOA_X
ClientSampleId :

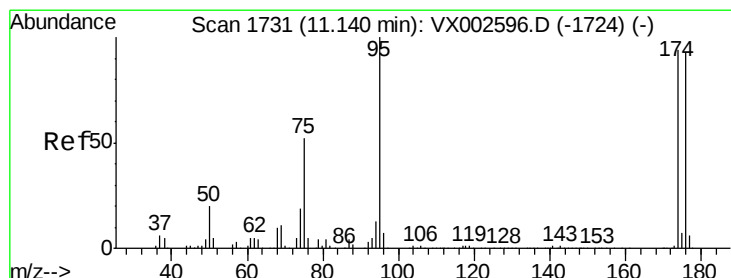
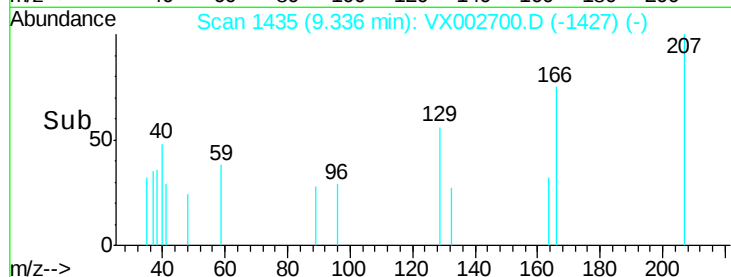
Tot Ion:129 Resp: 110
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V

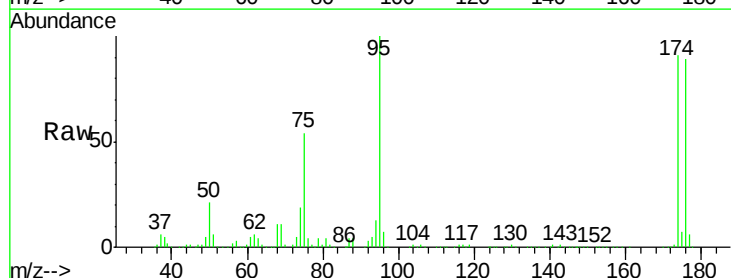


Time-->

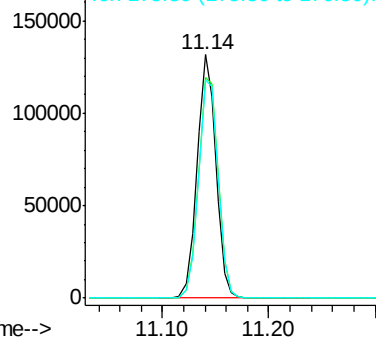


#62
4-Bromofluorobenzene
Concen: 47.09 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002700.D
Acq: 19 Jun 2018 01:27

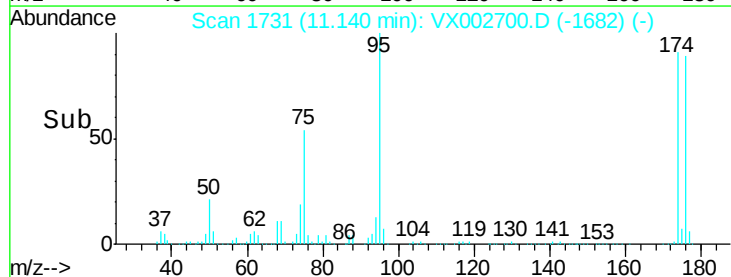
Tgt Ion: 95 Resp: 163070
Ion Ratio Lower Upper
95 100
174 96.1 0.0 187.4
176 94.0 0.0 181.0

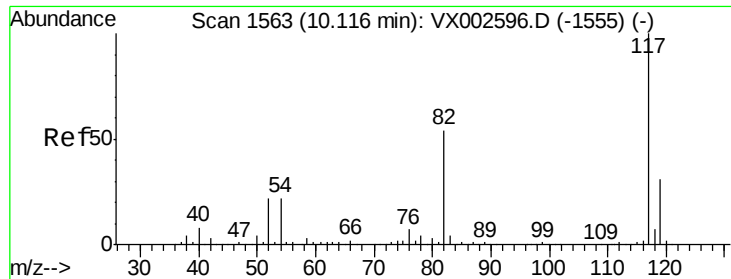


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V



Time-->





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX002700.D

Acq: 19 Jun 2018 01:27

Instrument :

MSVOA_X

ClientSampled :

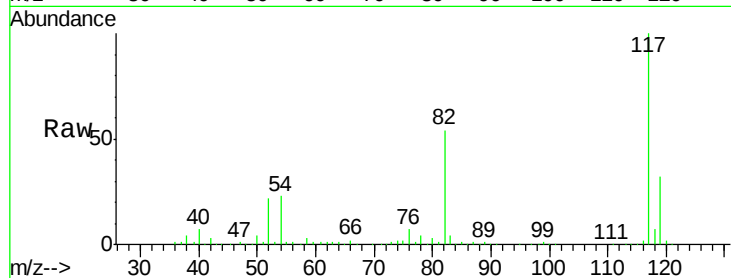
Tot Ion:117 Resp: 276113

Ion Ratio Lower Upper

117 100

82 54.4 45.0 67.4

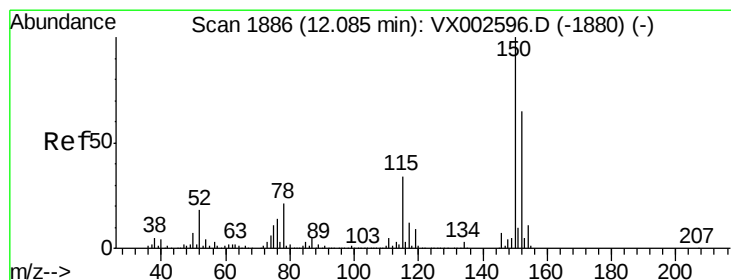
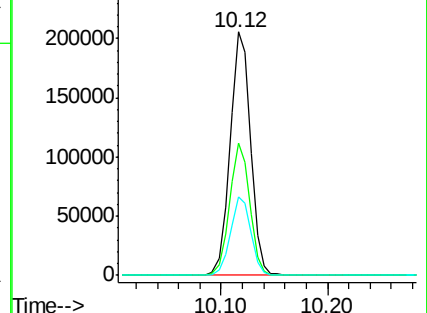
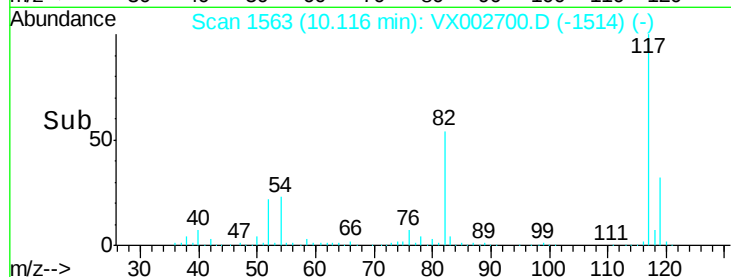
119 32.2 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002700.D

Acq: 19 Jun 2018 01:27

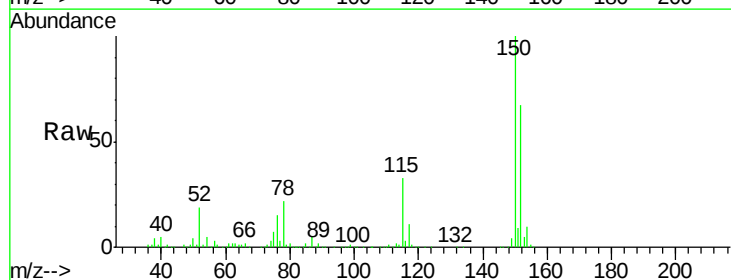
Tgt Ion:152 Resp: 152237

Ion Ratio Lower Upper

152 100

115 53.1 40.1 120.2

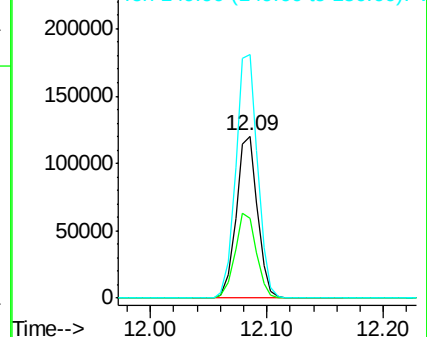
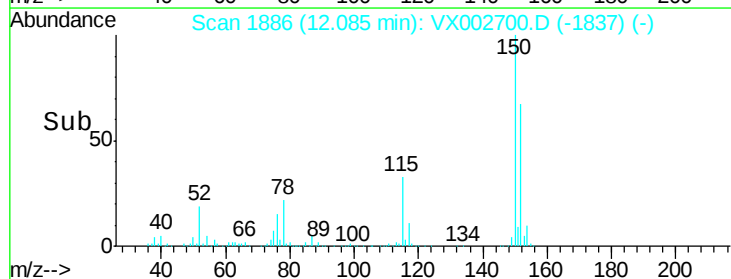
150 155.1 0.0 347.2

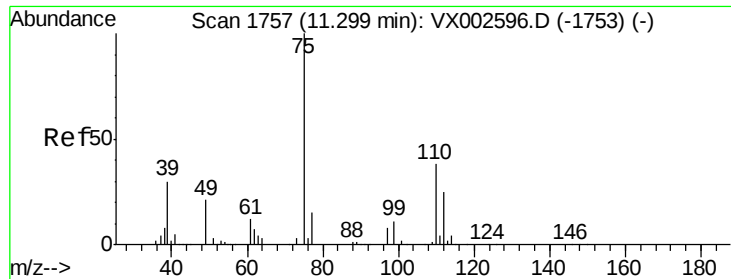


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 30.41 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002700.D

Acq: 19 Jun 2018 01:27

Instrument :

MSVOA_X

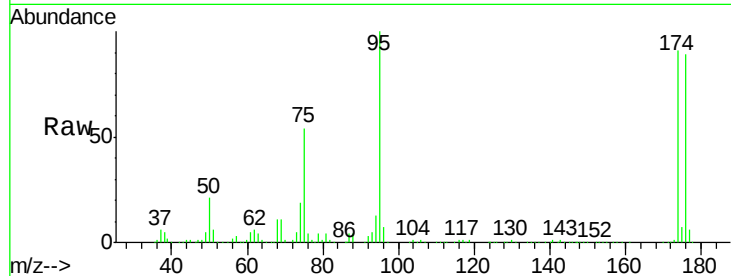
ClientSampleId :

Tot Ion: 75 Resp: 87362

Ion Ratio Lower Upper

75 100

77 1.2 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.14

80000

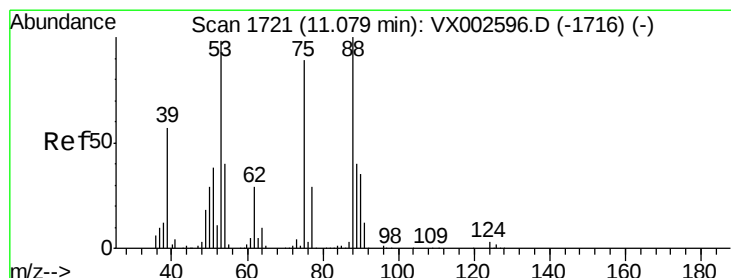
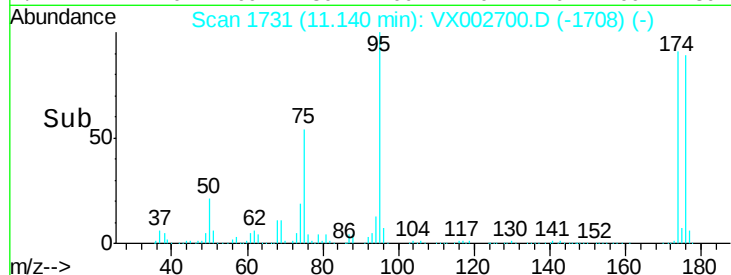
60000

40000

20000

0

Time--> 11.05 11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 93.35 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002700.D

Acq: 19 Jun 2018 01:27

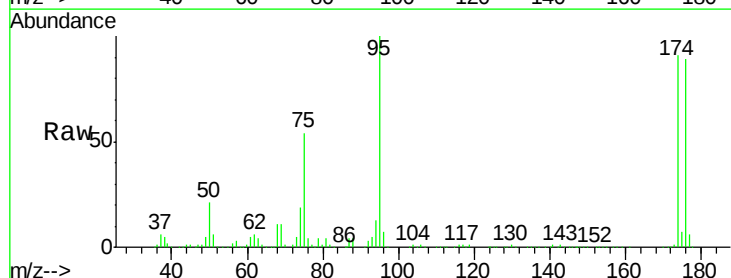
Tgt Ion: 75 Resp: 87362

Ion Ratio Lower Upper

75 100

53 0.0 86.8 130.2#

89 0.0 38.2 57.2#



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

11.14

80000

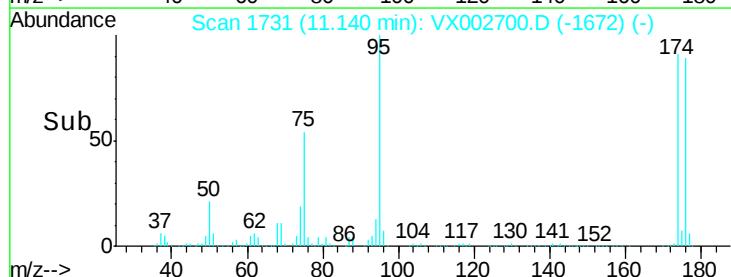
60000

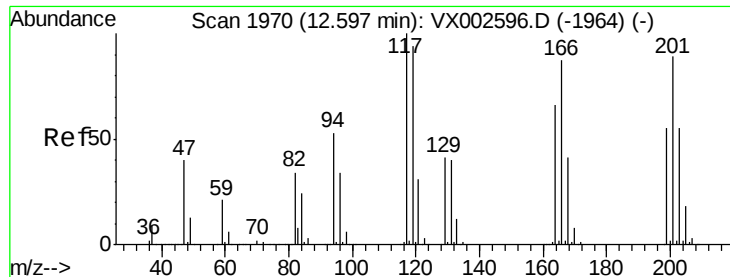
40000

20000

0

Time--> 11.05 11.10 11.15 11.20





#90

Hexachloroethane

Concen: 2.64 ug/l

RT: 12.67 min Scan# 1982

Delta R.T. 0.07 min

Lab File: VX002700.D

Acq: 19 Jun 2018 01:27

Instrument :

MSVOA_X

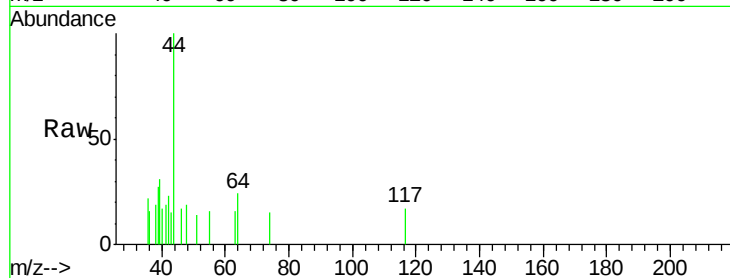
ClientSampleId :

Tot Ion:117 Resp: 22

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

