

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062018\
 Data File : VX002734.D
 Acq On : 20 Jun 2018 11:40
 Operator : JC/MD
 Sample : VX0620WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 21 03:55:04 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	212271	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	297989	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	271947	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	153993	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	151904	47.09	ug/l	0.00
Spiked Amount			Recovery	=	94.18%	
35) Dibromofluoromethane	5.51	113	121207	50.96	ug/l	0.00
Spiked Amount			Recovery	=	101.92%	
50) Toluene-d8	8.72	98	451717	50.02	ug/l	0.00
Spiked Amount			Recovery	=	100.04%	
62) 4-Bromofluorobenzene	11.14	95	154367	45.11	ug/l	0.00
Spiked Amount			Recovery	=	90.22%	

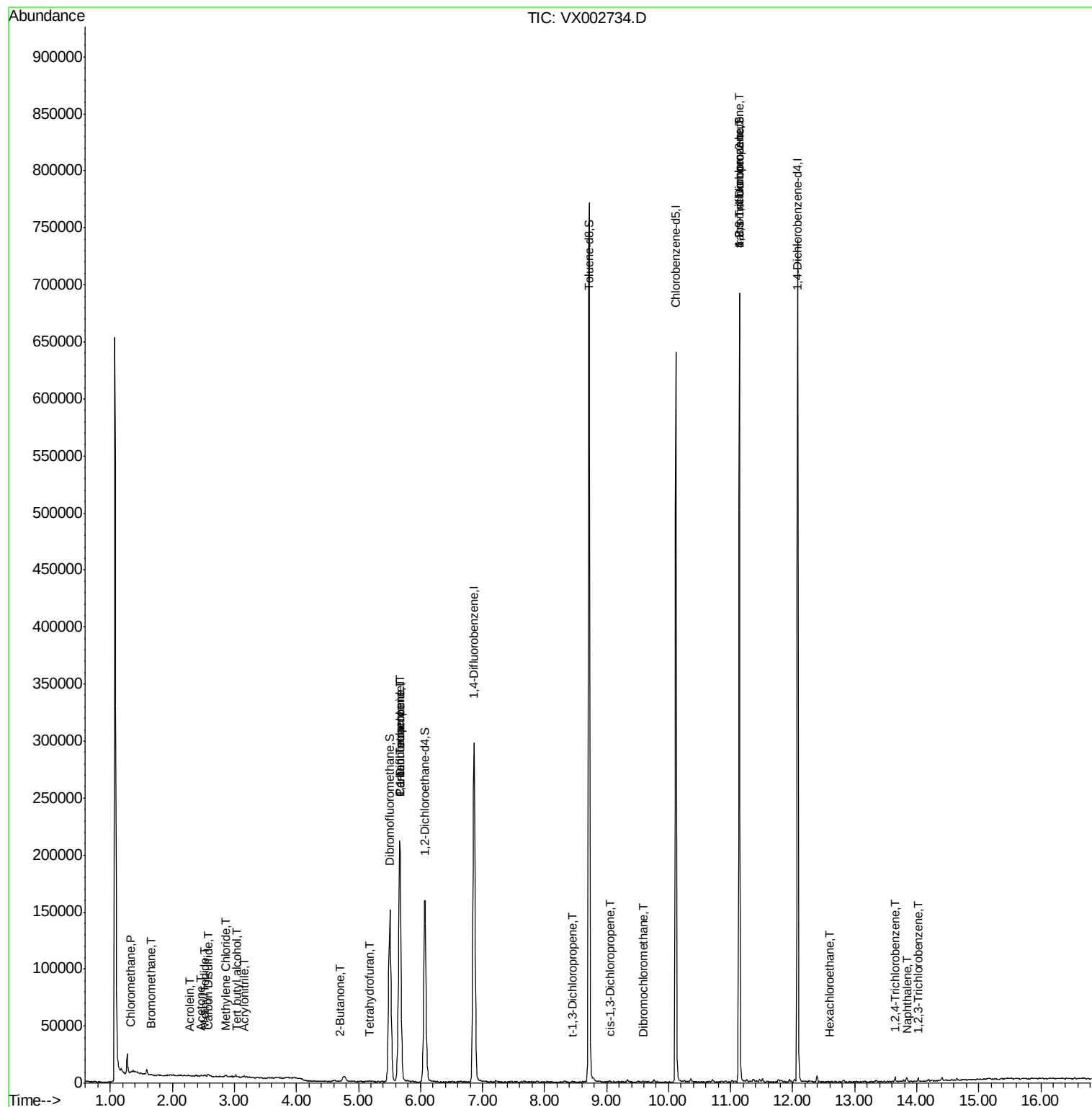
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	558	0.21	ug/l #	84
5) Bromomethane	1.66	94	952	0.57	ug/l	92
10) Methyl Iodide	2.51	142	1281	5.52	ug/l	93
11) Tert butyl alcohol	3.04	59	1277	1.91	ug/l #	92
13) Acrolein	2.29	56	464	8.31	ug/l #	46
15) Acrylonitrile	3.15	53	967	0.66	ug/l #	86
16) Acetone	2.45	43	712	0.50	ug/l #	59
17) Carbon Disulfide	2.57	76	2567	0.46	ug/l	96
20) Methylene Chloride	2.86	84	635	0.22	ug/l #	69
25) 2-Butanone	4.70	43	435	0.23	ug/l #	52
29) Tetrahydrofuran	5.17	42	1037	0.85	ug/l #	81
36) 1,1-Dichloropropene	5.66	75	14657	4.63	ug/l #	46
38) Carbon Tetrachloride	5.67	117	19768	6.27	ug/l #	15
53) t-1,3-Dichloropropene	8.44	75	172	2.44	ug/l #	43
54) cis-1,3-Dichloropropene	9.05	75	358	3.30	ug/l #	45
60) Dibromochloromethane	9.60	129	22	3.77	ug/l #	11
76) 1,2,3-Trichloropropane	11.14	75	82672	28.45	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	82672	87.60	ug/l #	6
90) Hexachloroethane	12.60	117	39	2.65	ug/l #	1
93) 1,2,4-Trichlorobenzene	13.65	180	1060	0.28	ug/l	88
95) Naphthalene	13.83	128	2120	0.20	ug/l #	93
96) 1,2,3-Trichlorobenzene	14.03	180	815	0.21	ug/l	97

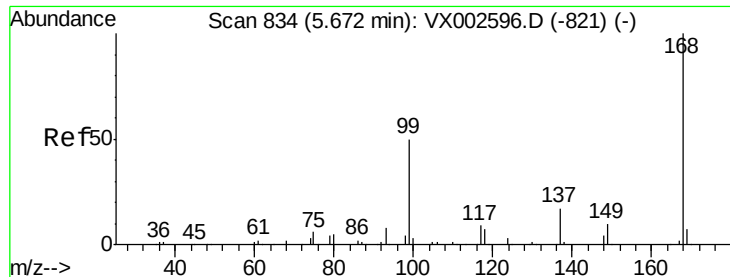
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX062018\
Data File : VX002734.D
Acq On : 20 Jun 2018 11:40
Operator : JC/MD
Sample : VX0620WBL01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Jun 21 03:55:04 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
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# 833

Delta R.T. -0.01 min

Lab File: VX002734.D

Acq: 20 Jun 2018 11:40

Instrument :

MSVOA_X

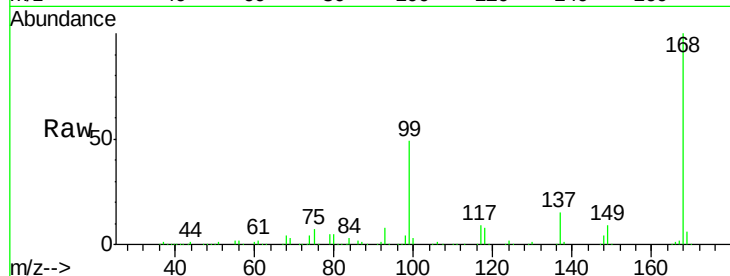
ClientSampleId :

Tot Ion:168 Resp: 212271

Ion Ratio Lower Upper

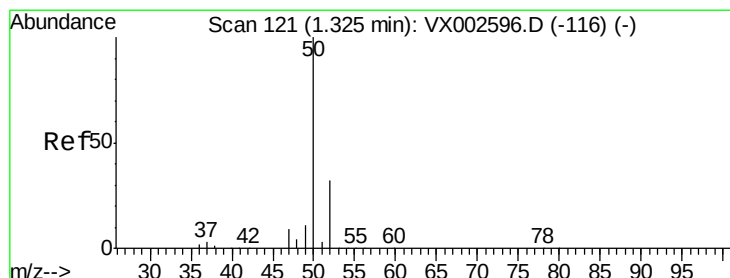
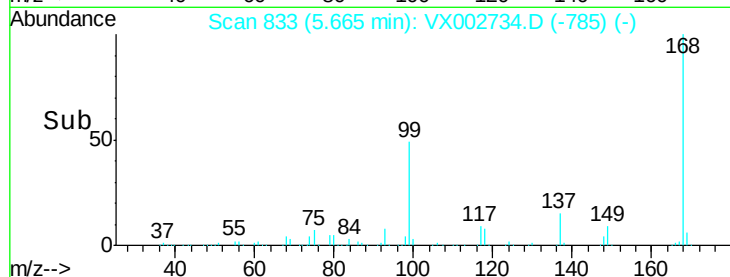
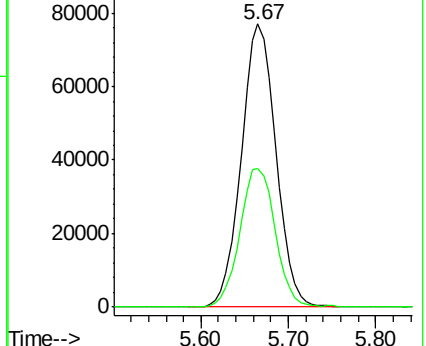
168 100

99 49.1 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: 0.21 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX002734.D

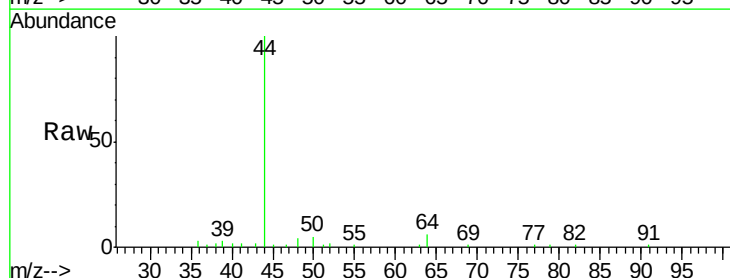
Acq: 20 Jun 2018 11:40

Tgt Ion: 50 Resp: 558

Ion Ratio Lower Upper

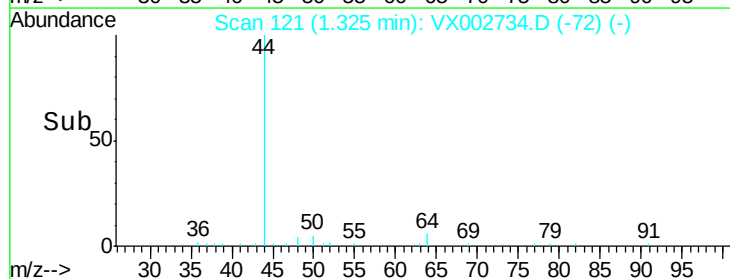
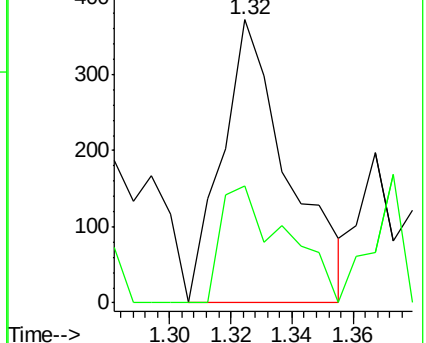
50 100

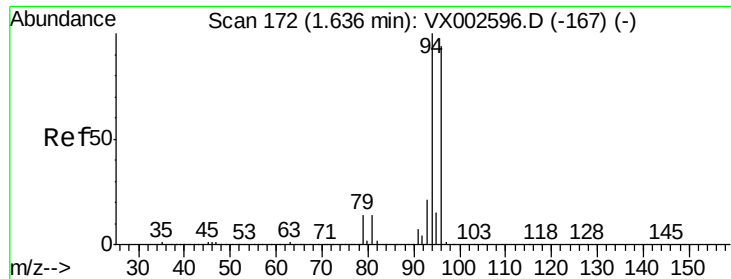
52 41.1 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.57 ug/l

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX002734.D

Acq: 20 Jun 2018 11:40

Instrument :

MSVOA_X

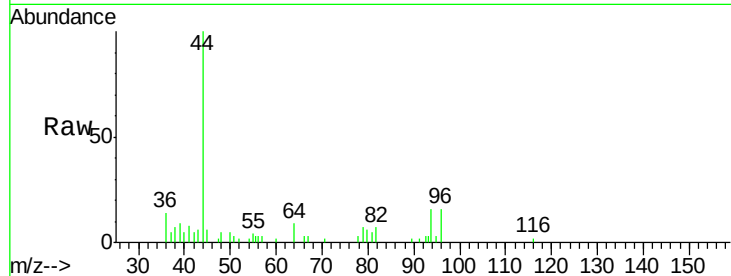
ClientSampled :

Tot Ion: 94 Resp: 952

Ion Ratio Lower Upper

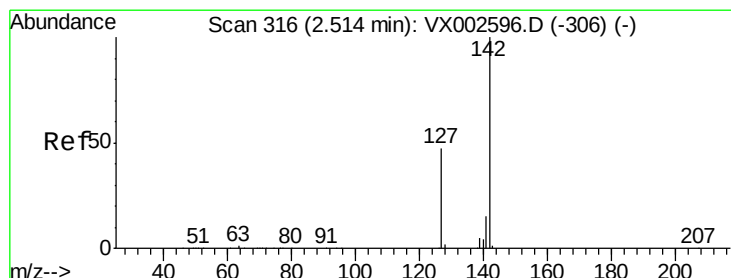
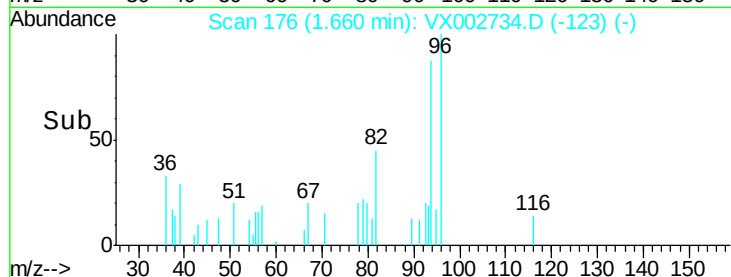
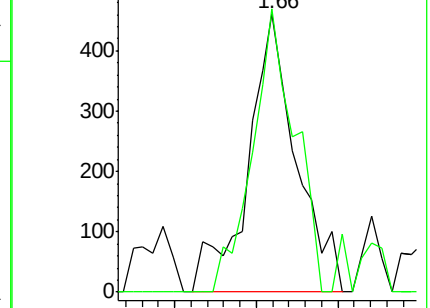
94 100

96 101.5 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 5.52 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX002734.D

Acq: 20 Jun 2018 11:40

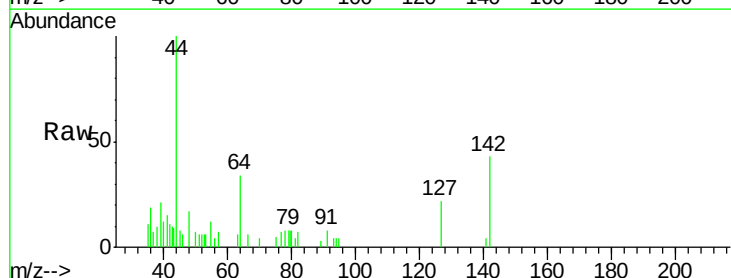
Tgt Ion:142 Resp: 1281

Ion Ratio Lower Upper

142 100

127 50.7 36.6 55.0

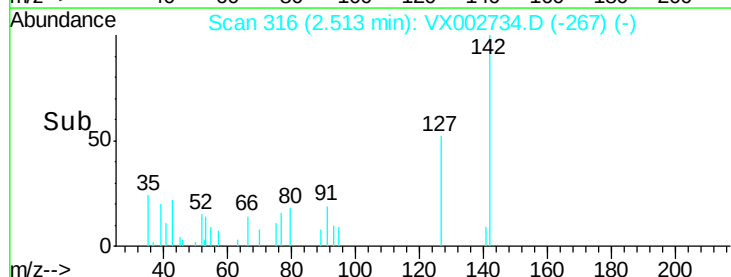
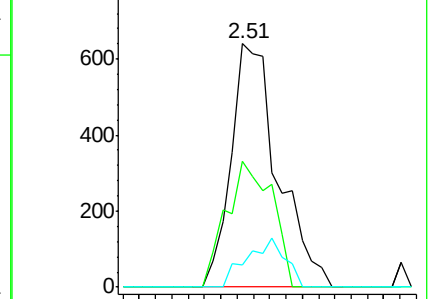
141 16.4 11.3 16.9

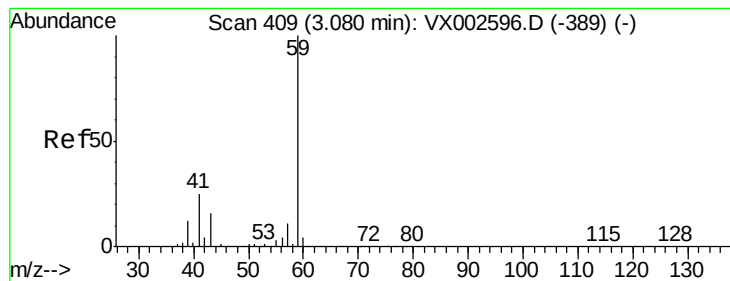


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 1.91 ug/l

RT: 3.04 min Scan# 402

Delta R.T. -0.04 min

Lab File: VX002734.D

Acq: 20 Jun 2018 11:40

Instrument :

MSVOA_X

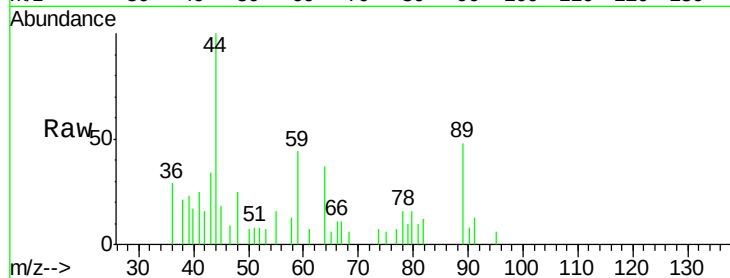
ClientSampleId :

Tot Ion: 59 Resp: 1277

Ion Ratio Lower Upper

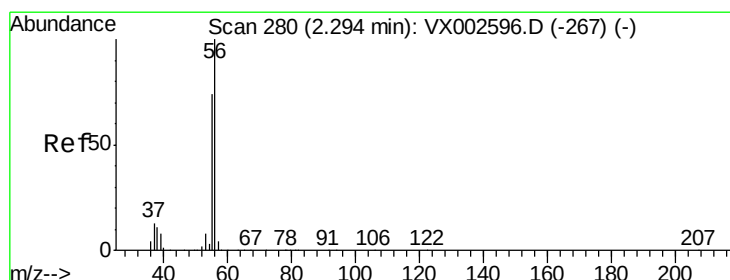
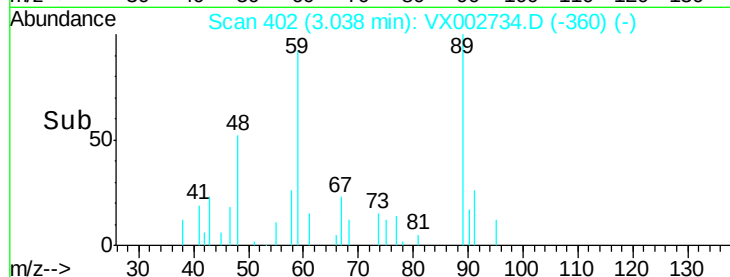
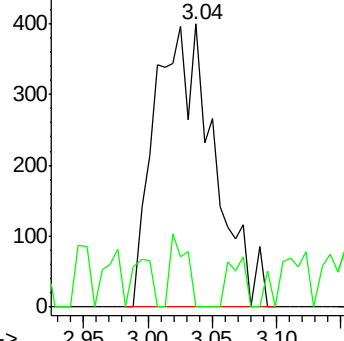
59 100

57 7.3 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: 8.31 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX002734.D

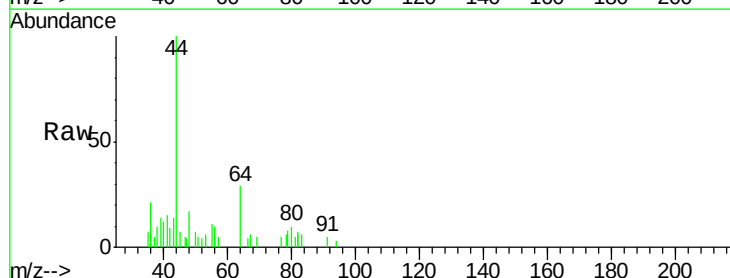
Acq: 20 Jun 2018 11:40

Tgt Ion: 56 Resp: 464

Ion Ratio Lower Upper

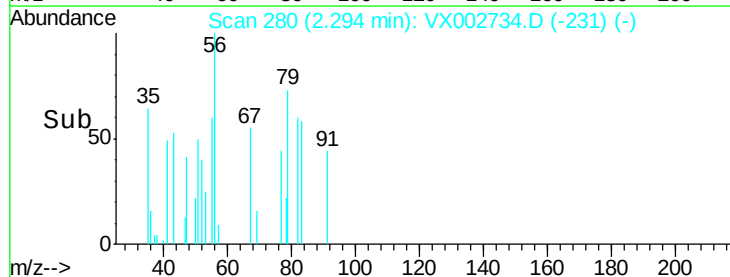
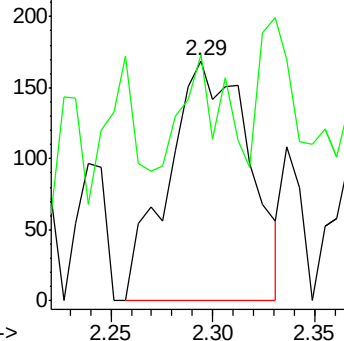
56 100

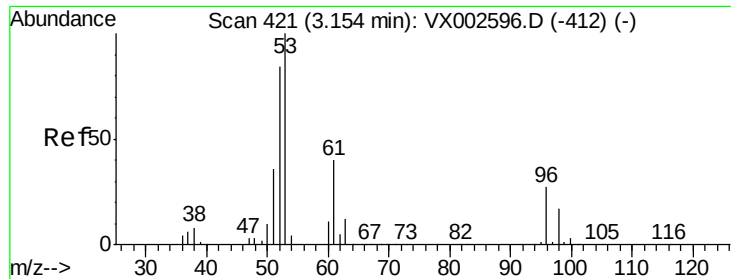
55 26.3 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acrylonitrile

Concen: 0.66 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX002734.D

Acq: 20 Jun 2018 11:40

Instrument :

MSVOA_X

ClientSampled :

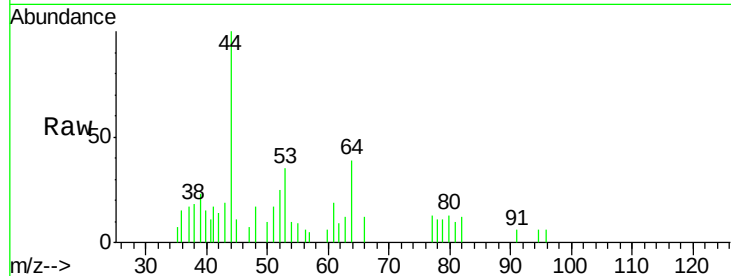
Tot Ion: 53 Resp: 967

Ion Ratio Lower Upper

53 100

52 72.7 66.7 100.1

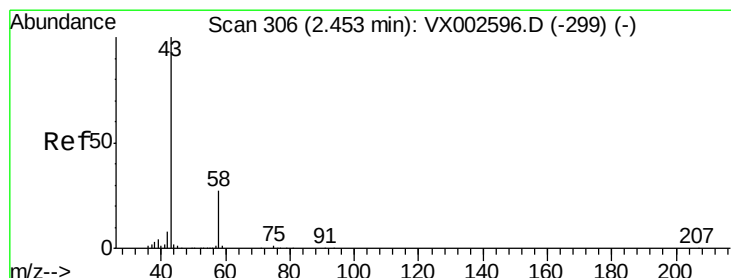
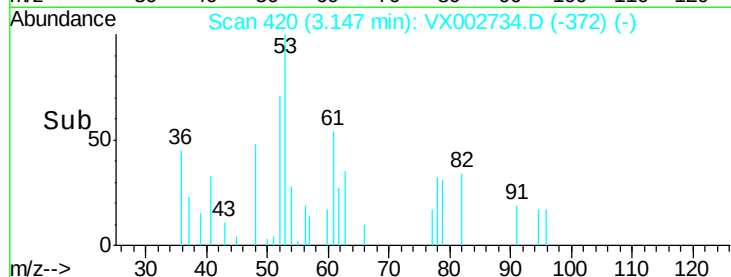
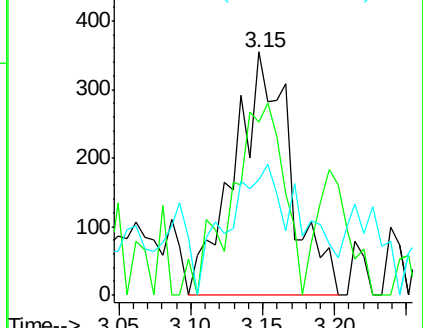
51 49.2 29.9 44.9#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 0.50 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002734.D

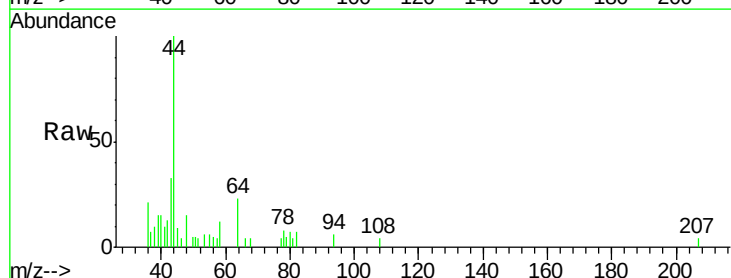
Acq: 20 Jun 2018 11:40

Tgt Ion: 43 Resp: 712

Ion Ratio Lower Upper

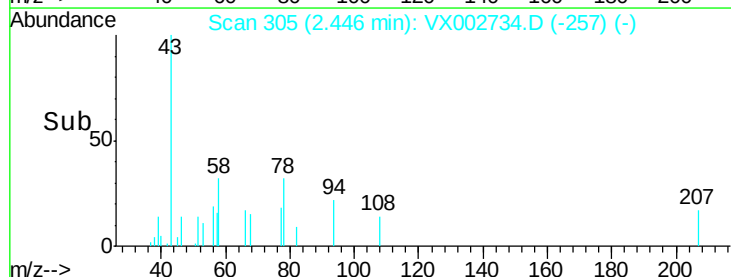
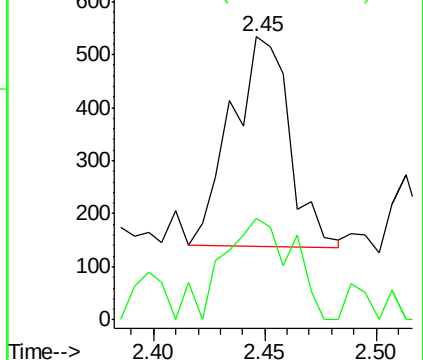
43 100

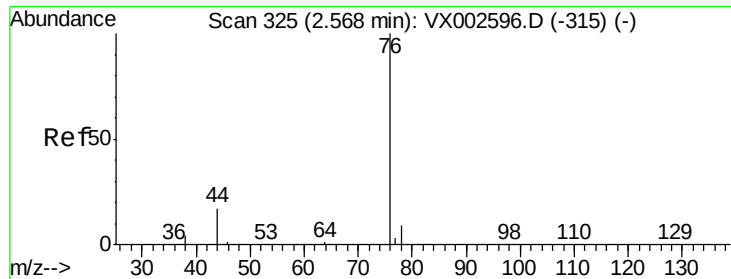
58 48.8 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.46 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002734.D

Acq: 20 Jun 2018 11:40

Instrument :

MSVOA_X

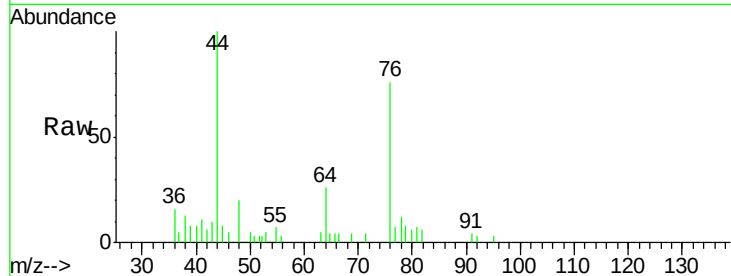
ClientSampled :

Tot Ion: 76 Resp: 2567

Ion Ratio Lower Upper

76 100

78 7.1 6.9 10.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

1500

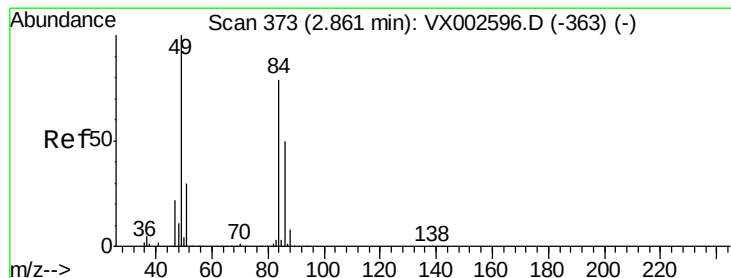
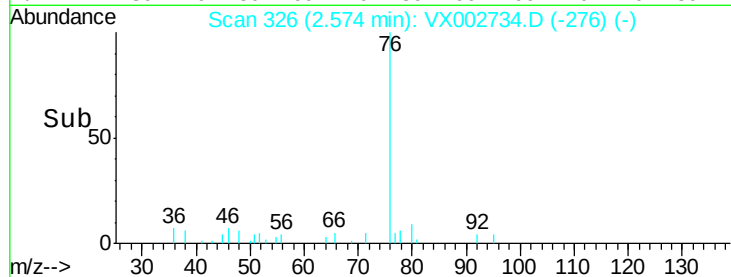
1000

500

0

Time-->

2.50 2.55 2.60 2.65



#20

Methylene Chloride

Concen: 0.22 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX002734.D

Acq: 20 Jun 2018 11:40

Tgt Ion: 84 Resp: 635

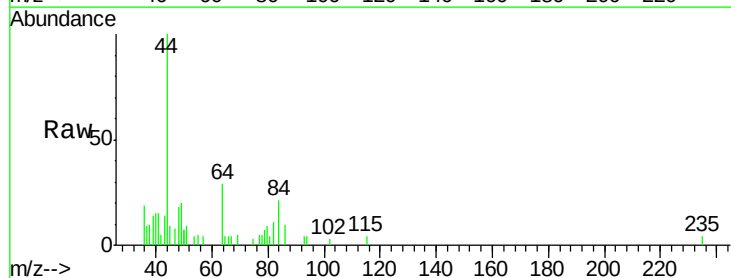
Ion Ratio Lower Upper

84 100

49 98.2 107.8 161.6#

51 14.0 32.8 49.2#

86 47.7 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

600

500

400

300

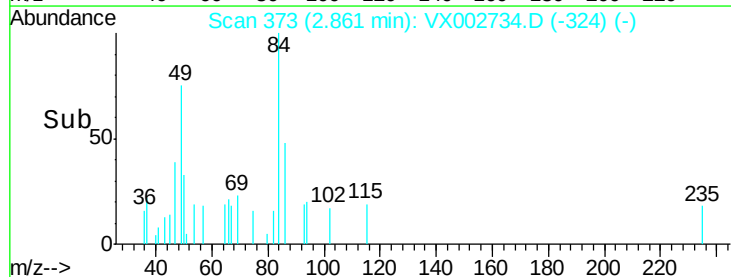
200

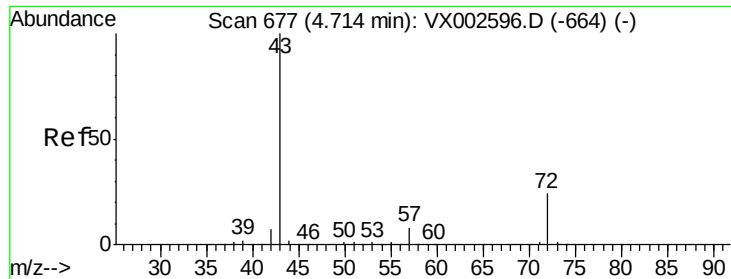
100

0

Time-->

2.80 2.85 2.90





#25

2-Butanone

Concen: 0.23 ug/l

RT: 4.70 min Scan# 674

Delta R.T. -0.02 min

Lab File: VX002734.D

Acq: 20 Jun 2018 11:40

Instrument :

MSVOA_X

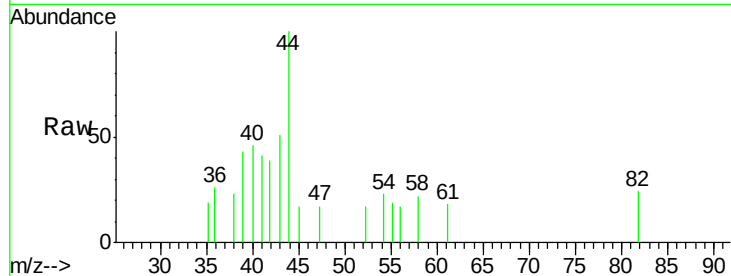
ClientSampled :

Tot Ion: 43 Resp: 435

Ion Ratio Lower Upper

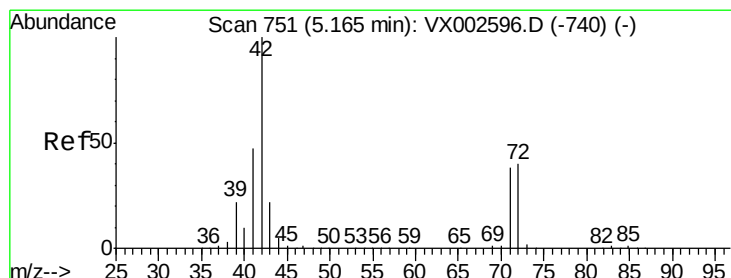
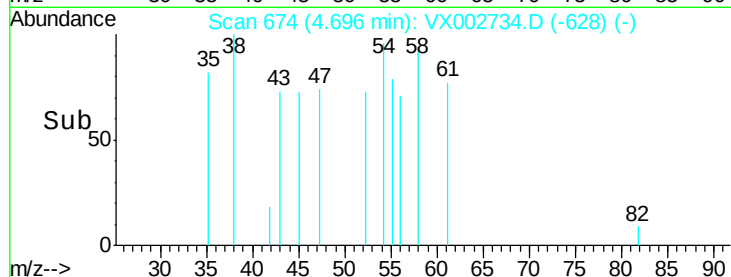
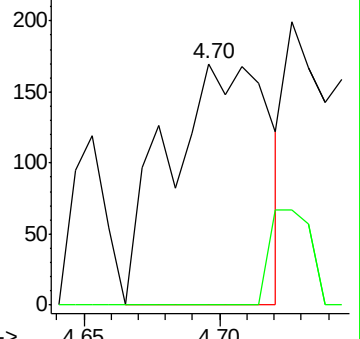
43 100

72 0.0 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.85 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX002734.D

Acq: 20 Jun 2018 11:40

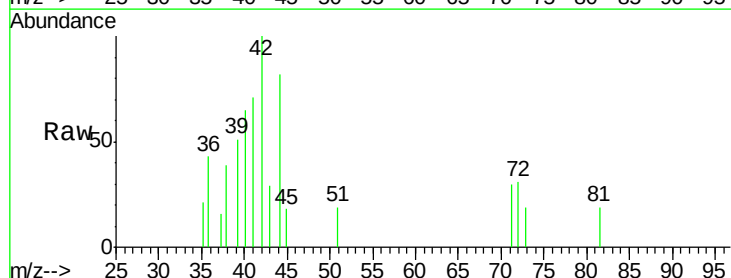
Tgt Ion: 42 Resp: 1037

Ion Ratio Lower Upper

42 100

72 27.8 32.0 48.0#

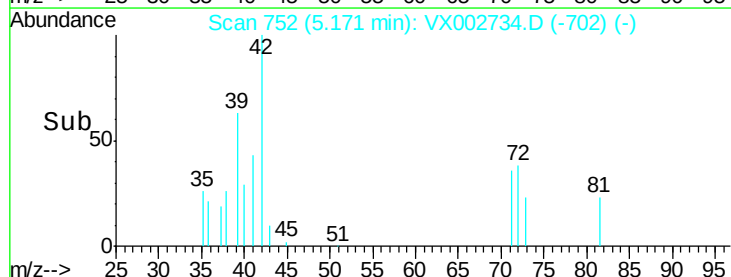
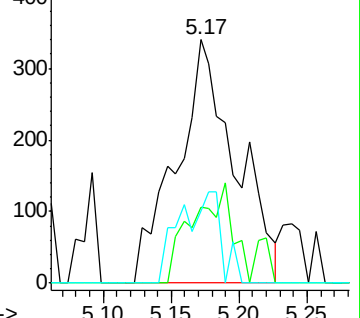
71 26.5 30.1 45.1#

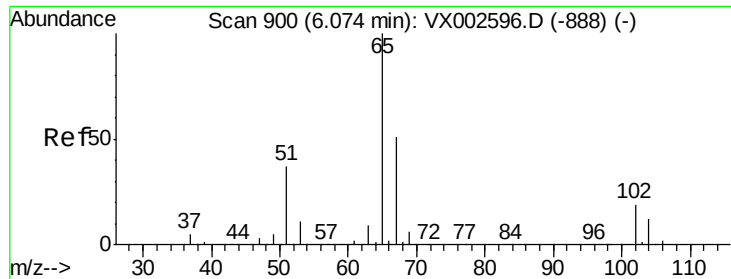


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

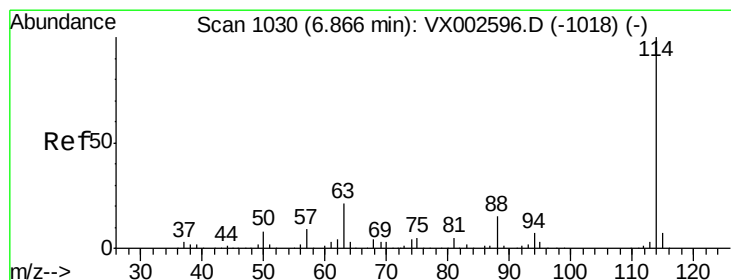
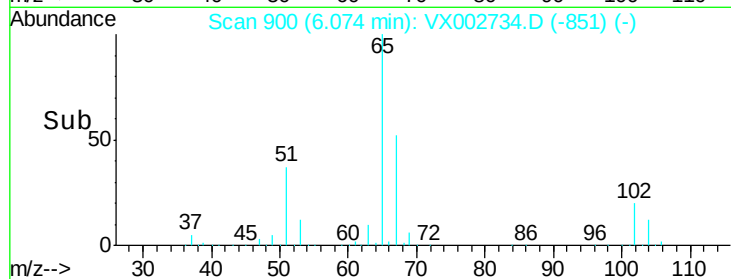
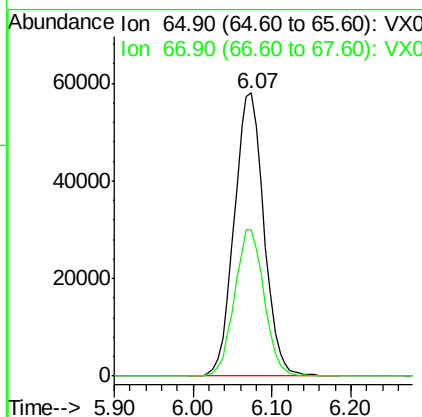
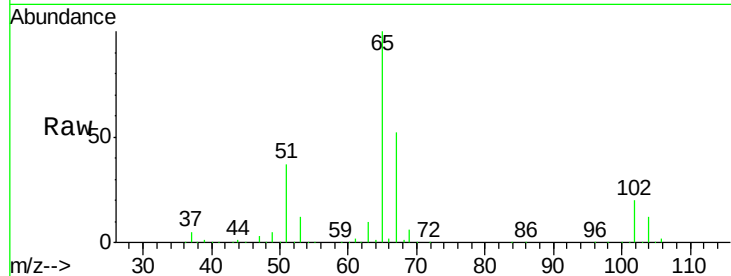




#33
 1,2-Dichloroethane-d4
 Concen: 47.09 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002734.D
 Acq: 20 Jun 2018 11:40

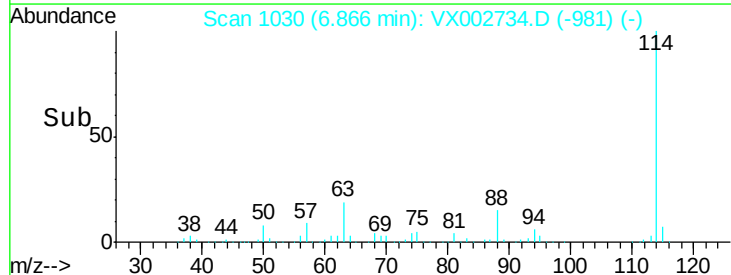
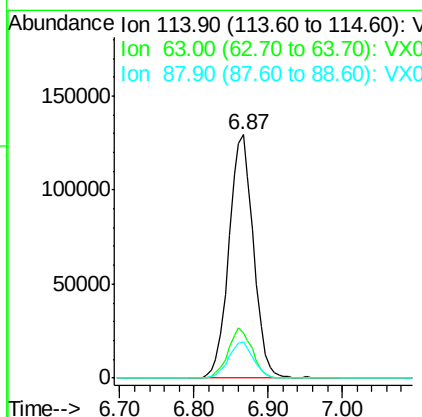
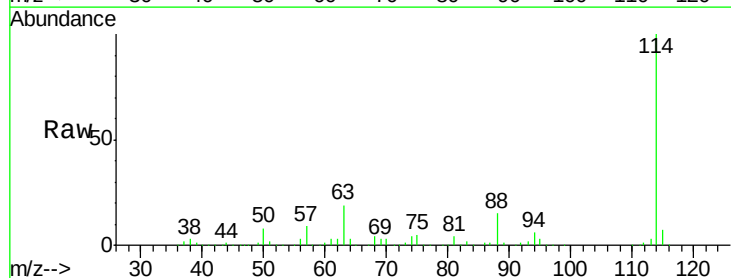
Instrument :
 MSVOA_X
 ClientSampleId :

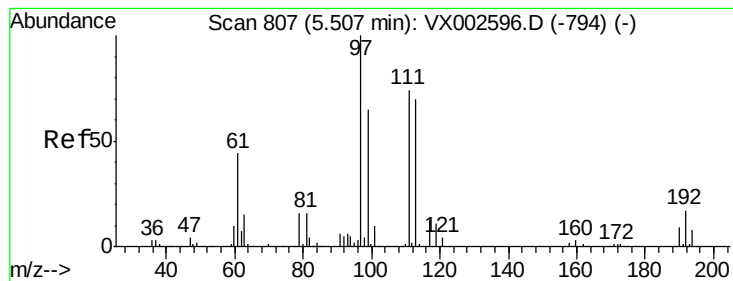
Tot Ion: 65 Resp: 151904
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002734.D
 Acq: 20 Jun 2018 11:40

Tgt Ion: 114 Resp: 297989
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 41.4
 88 15.1 0.0 30.0





#35

Dibromofluoromethane

Concen: 50.96 ug/l

RT: 5.51 min Scan# 807

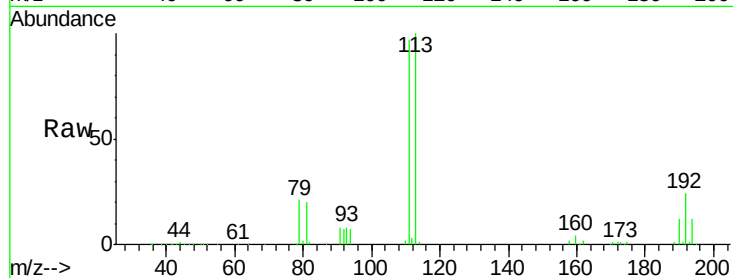
Delta R.T. -0.00 min

Lab File: VX002734.D

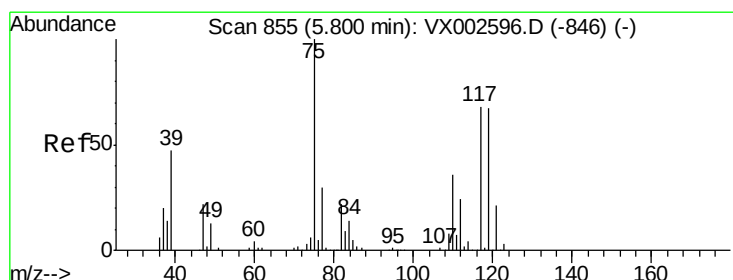
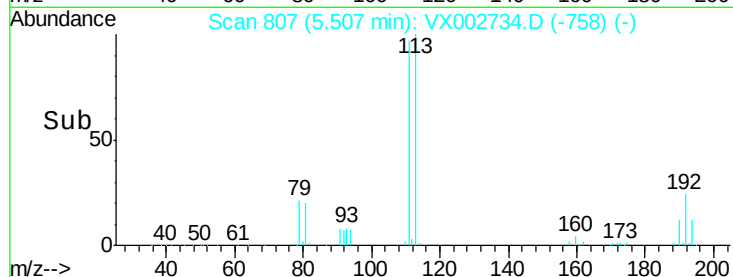
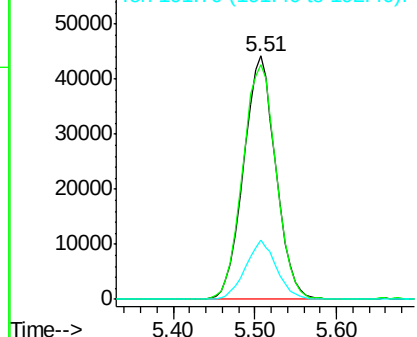
Acq: 20 Jun 2018 11:40

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	113	Resp:	121207
Ion	Ratio	Lower	Upper
113	100		
111	100.7	81.4	122.0
192	23.4	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: 4.63 ug/l

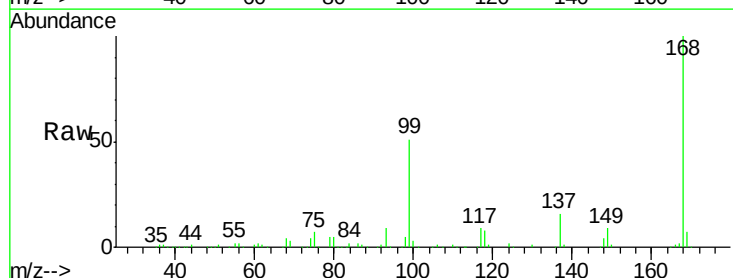
RT: 5.66 min Scan# 832

Delta R.T. -0.14 min

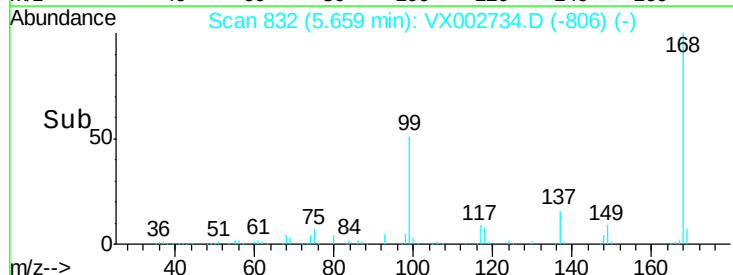
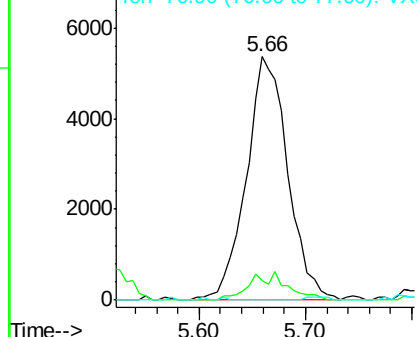
Lab File: VX002734.D

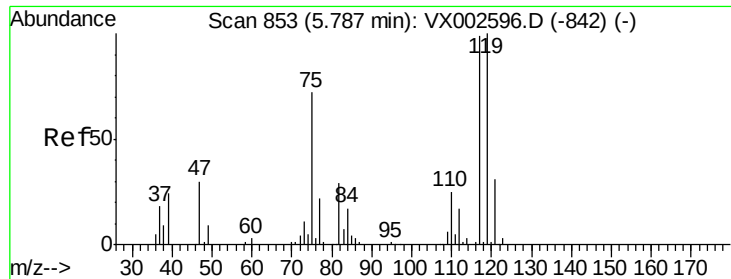
Acq: 20 Jun 2018 11:40

Tgt Ion:	75	Resp:	14657
Ion	Ratio	Lower	Upper
75	100		
110	5.4	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

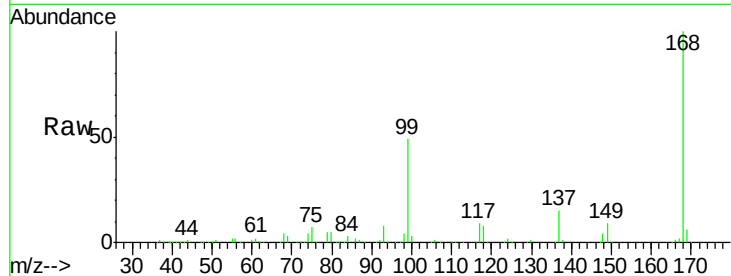




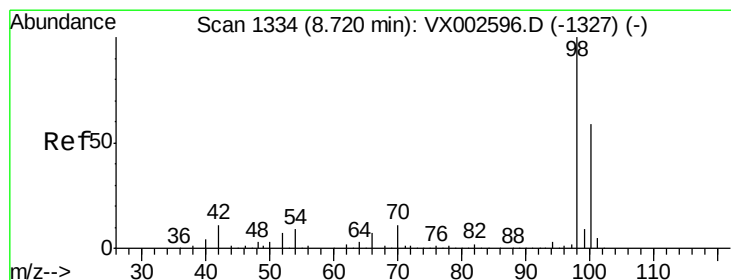
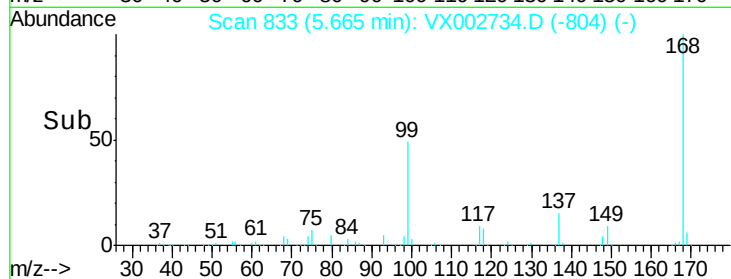
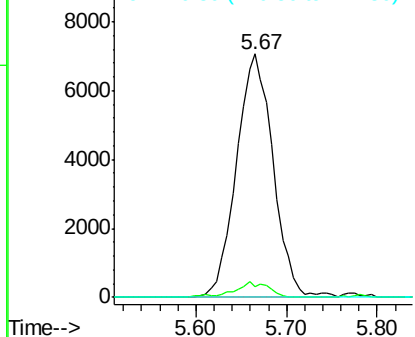
#38
Carbon Tetrachloride
Concen: 6.27 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX002734.D
Acq: 20 Jun 2018 11:40

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 19768
Ion Ratio Lower Upper
117 100
119 4.6 77.4 116.0#
121 0.0 24.4 36.6#

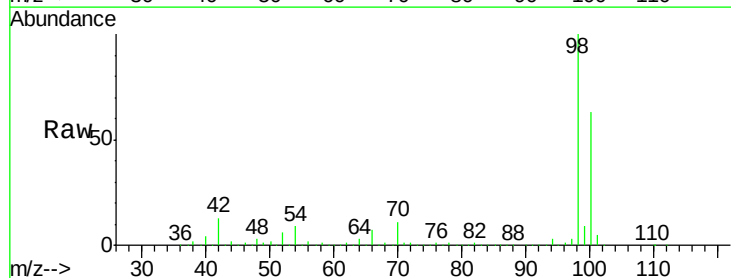


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

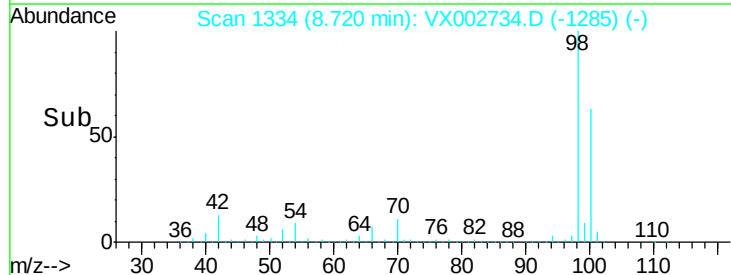
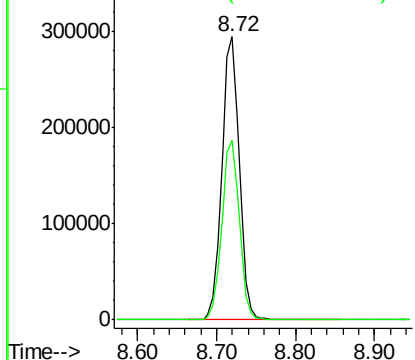


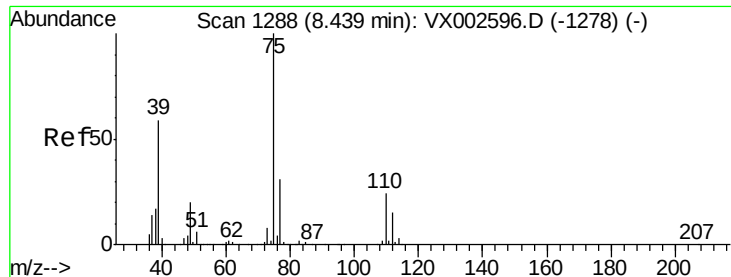
#50
Toluene-d8
Concen: 50.02 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002734.D
Acq: 20 Jun 2018 11:40

Tgt Ion: 98 Resp: 451717
Ion Ratio Lower Upper
98 100
100 63.4 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: 2.44 ug/l

RT: 8.44 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VX002734.D

Acq: 20 Jun 2018 11:40

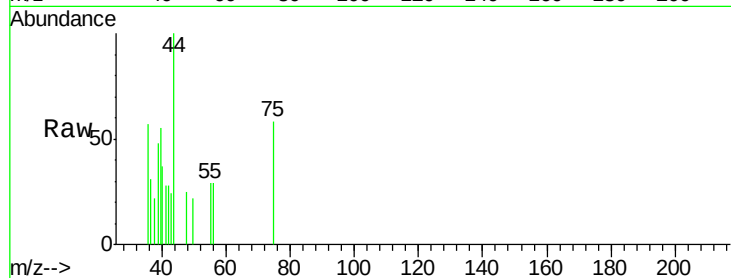
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 75 Resp: 172

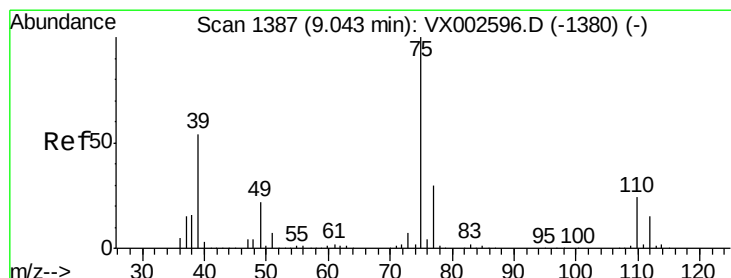
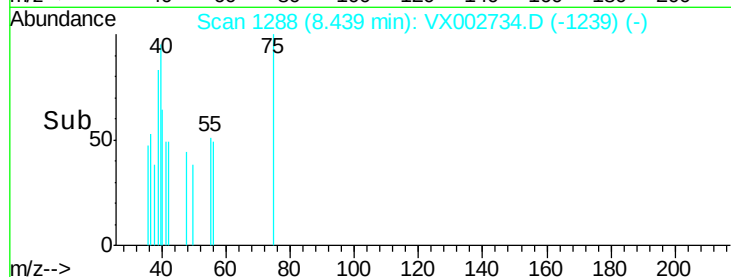
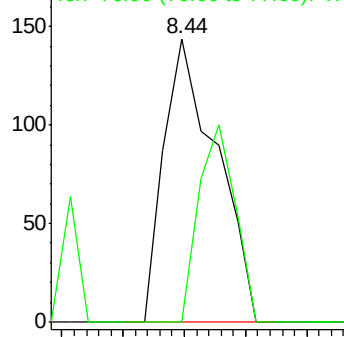
Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 76.90 (76.60 to 77.60): VX0



#54

cis-1,3-Dichloropropene

Concen: 3.30 ug/l

RT: 9.05 min Scan# 1388

Delta R.T. 0.01 min

Lab File: VX002734.D

Acq: 20 Jun 2018 11:40

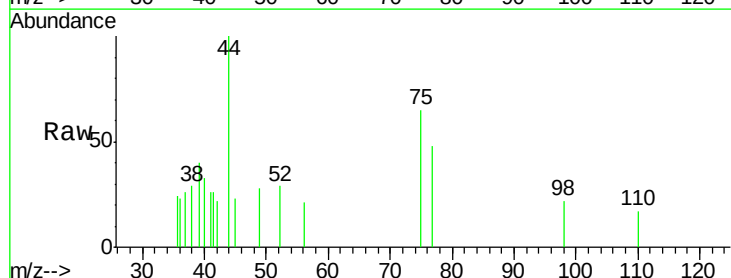
Tgt Ion: 75 Resp: 358

Ion Ratio Lower Upper

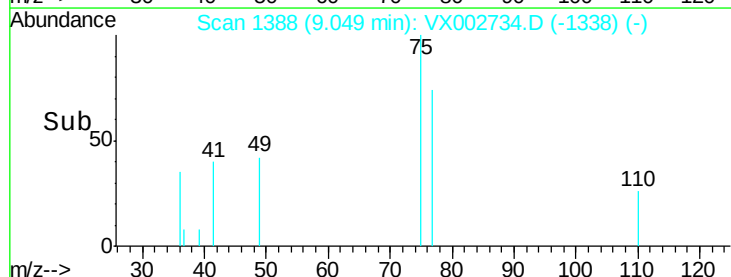
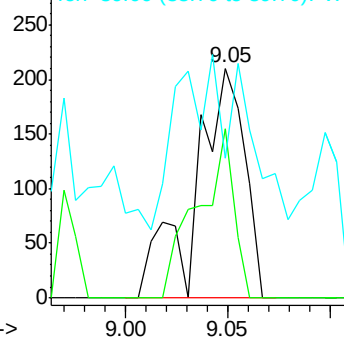
75 100

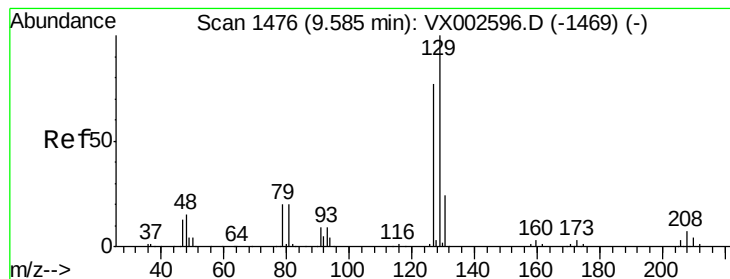
77 73.8 24.8 37.2#

39 23.8 42.4 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 76.90 (76.60 to 77.60): VX0
Ion 39.00 (38.70 to 39.70): VX0





#60

Dibromochloromethane

Concen: 3.77 ug/l

RT: 9.60 min Scan# 1478

Delta R.T. 0.01 min

Lab File: VX002734.D

Acq: 20 Jun 2018 11:40

Instrument :

MSVOA_X

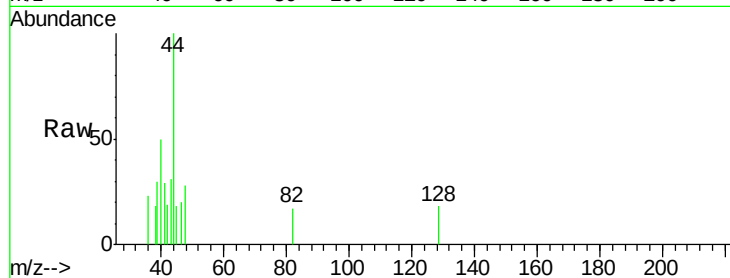
ClientSampleId :

Tot Ion:129 Resp: 22

Ion Ratio Lower Upper

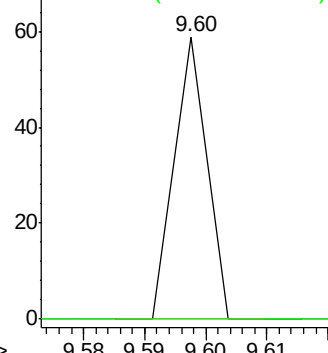
129 100

127 0.0 38.5 115.3#

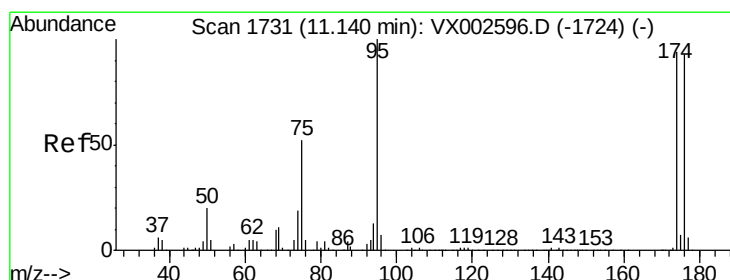
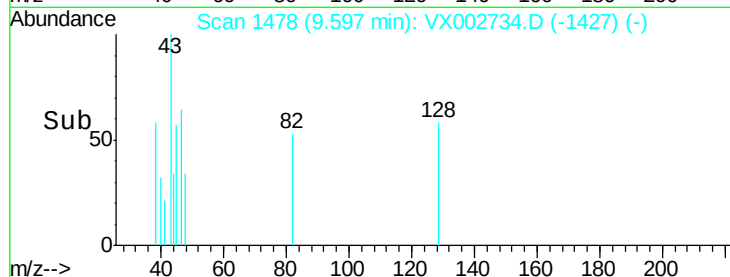


Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



Time-->



#62

4-Bromofluorobenzene

Concen: 45.11 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002734.D

Acq: 20 Jun 2018 11:40

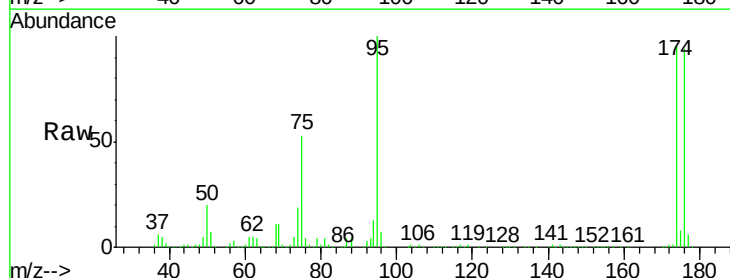
Tgt Ion: 95 Resp: 154367

Ion Ratio Lower Upper

95 100

174 97.6 0.0 187.4

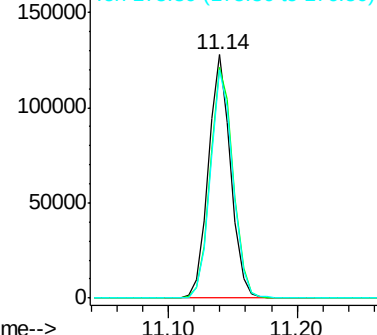
176 94.5 0.0 181.0



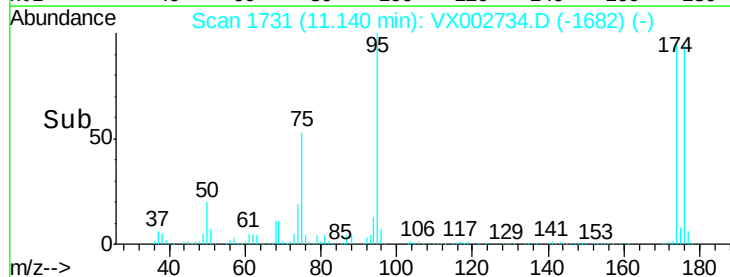
Abundance Ion 94.90 (94.60 to 95.60): VX0

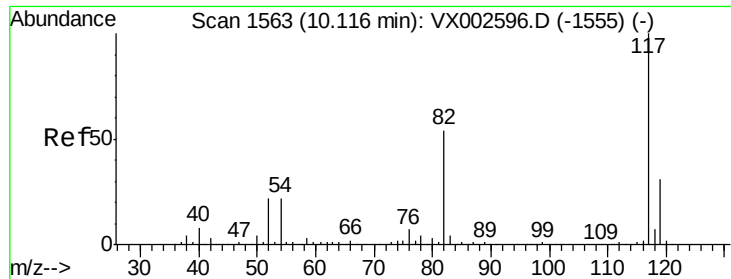
Ion 173.80 (173.50 to 174.50): V

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: VX002734.D

Acq: 20 Jun 2018 11:40

Instrument :

MSVOA_X

ClientSampled :

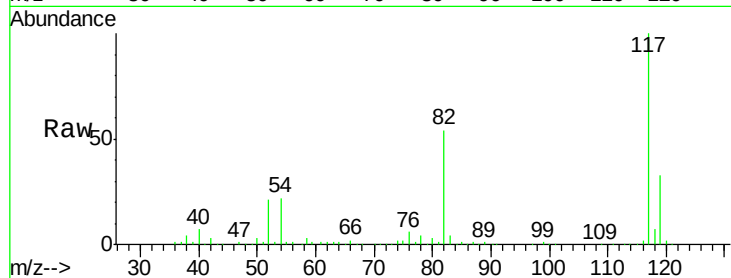
Tot Ion:117 Resp: 271947

Ion Ratio Lower Upper

117 100

82 53.7 45.0 67.4

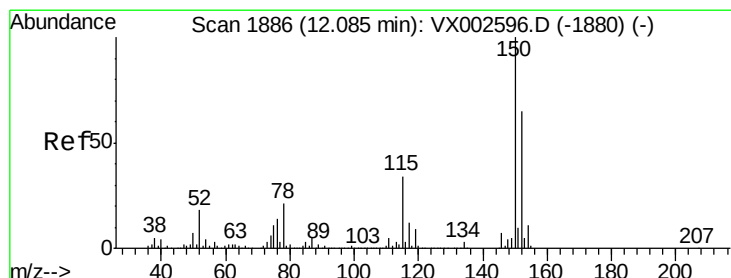
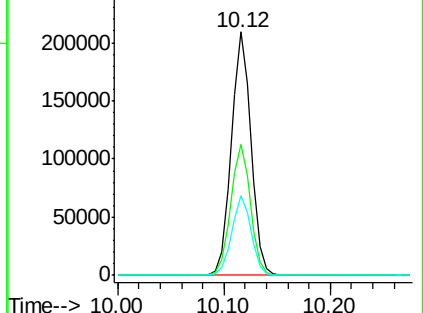
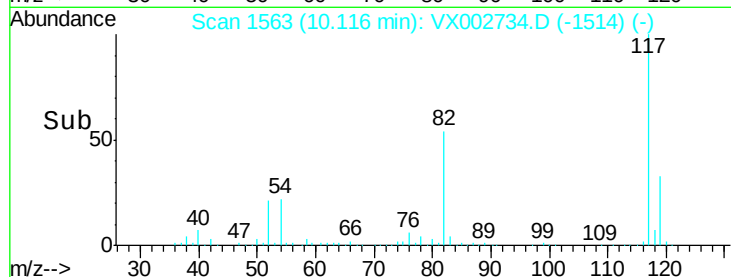
119 32.7 25.8 38.6



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: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX002734.D

Acq: 20 Jun 2018 11:40

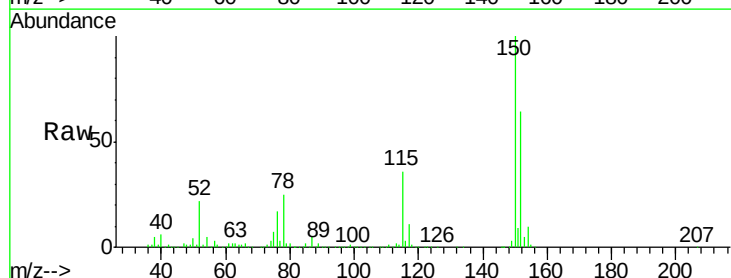
Tgt Ion:152 Resp: 153993

Ion Ratio Lower Upper

152 100

115 54.2 40.1 120.2

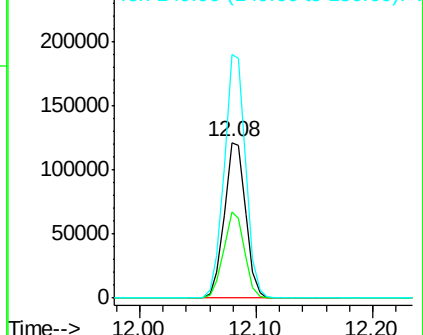
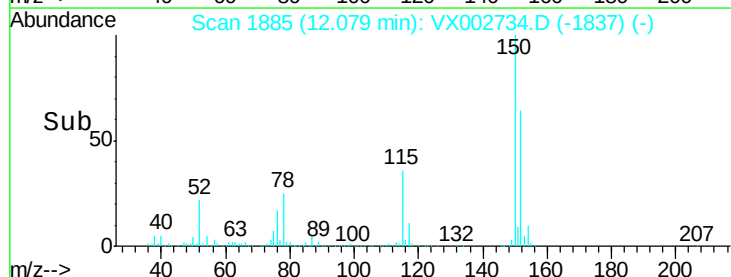
150 156.5 0.0 347.2

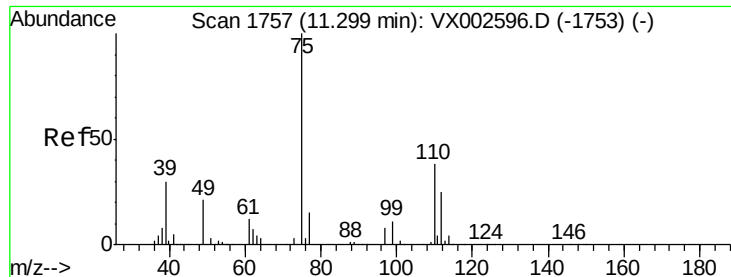


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 28.45 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002734.D

Acq: 20 Jun 2018 11:40

Instrument :

MSVOA_X

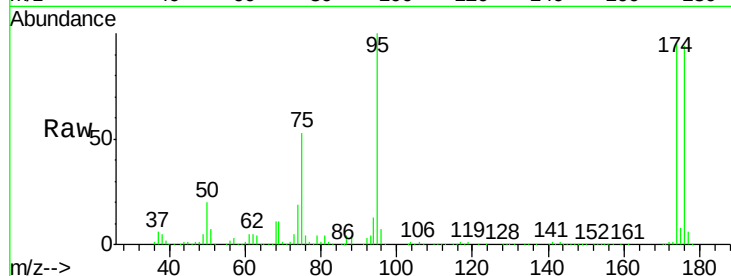
ClientSampleId :

Tot Ion: 75 Resp: 82672

Ion Ratio Lower Upper

75 100

77 1.5 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

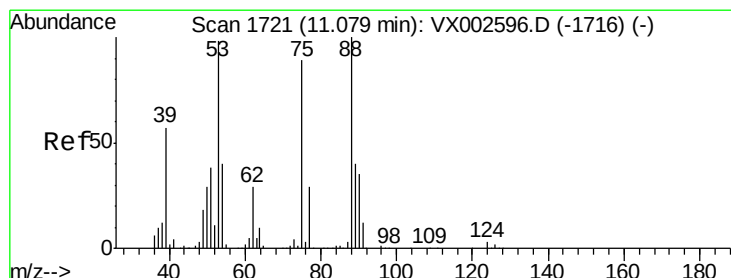
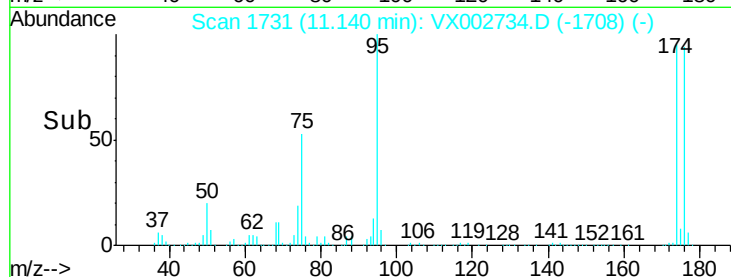
40000

20000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 87.60 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002734.D

Acq: 20 Jun 2018 11:40

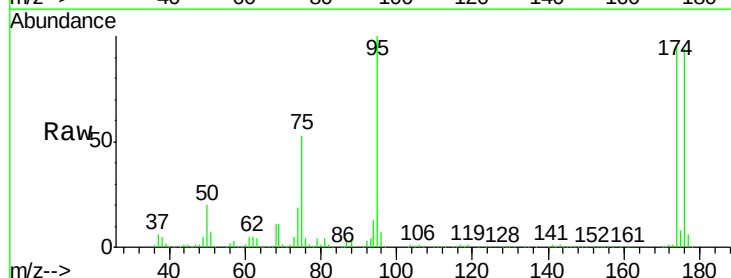
Tgt Ion: 75 Resp: 82672

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

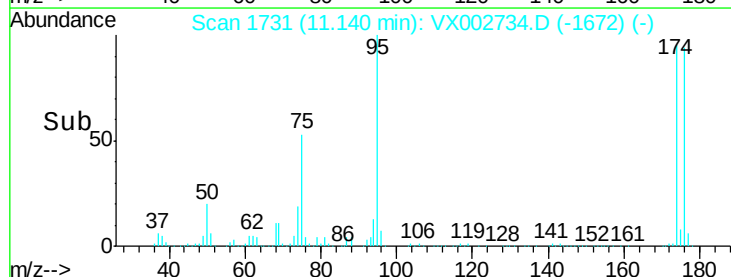
40000

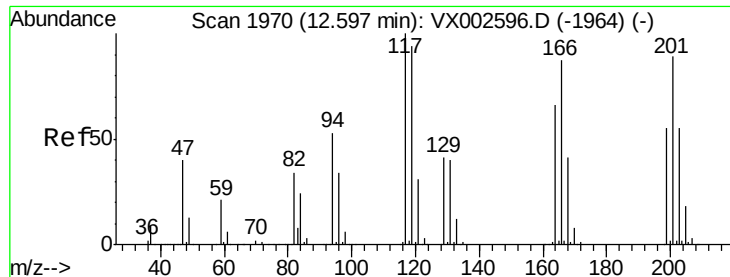
20000

0

Time-->

11.10 11.20





#90

Hexachloroethane

Concen: 2.65 ug/l

RT: 12.60 min Scan# 1970

Delta R.T. -0.00 min

Lab File: VX002734.D

Acq: 20 Jun 2018 11:40

Instrument :

MSVOA_X

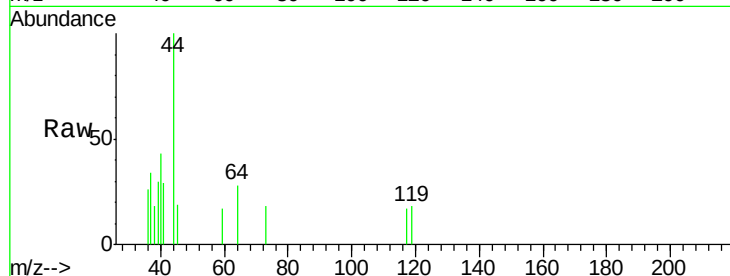
ClientSampleId :

Tot Ion:117 Resp: 39

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

12.60

60

50

40

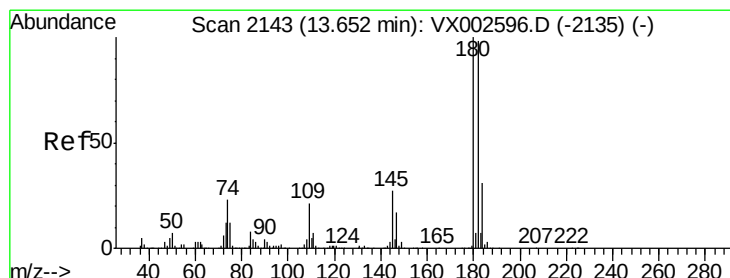
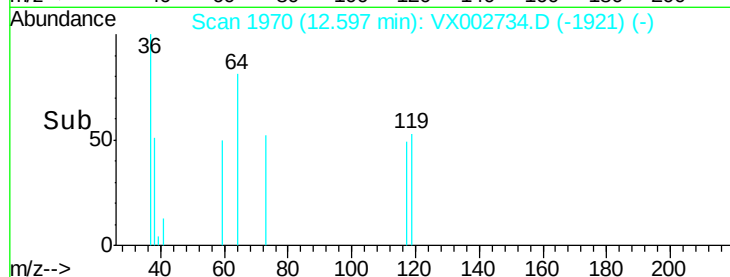
30

20

10

0

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 0.28 ug/l

RT: 13.65 min Scan# 2143

Delta R.T. -0.00 min

Lab File: VX002734.D

Acq: 20 Jun 2018 11:40

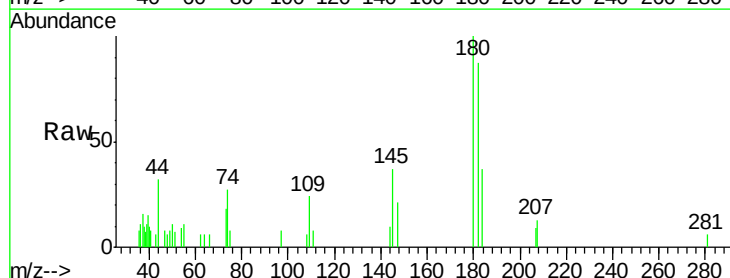
Tgt Ion:180 Resp: 1060

Ion Ratio Lower Upper

180 100

182 80.9 47.7 143.1

145 26.9 14.1 42.4



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

13.65

1200

1000

800

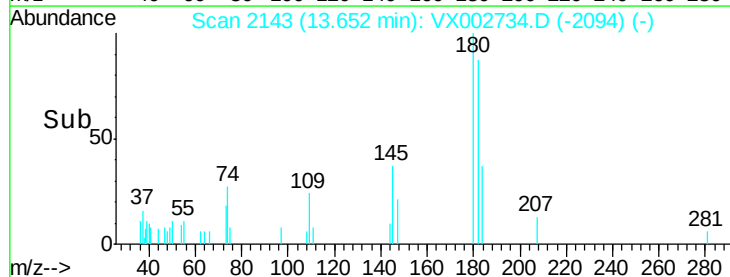
600

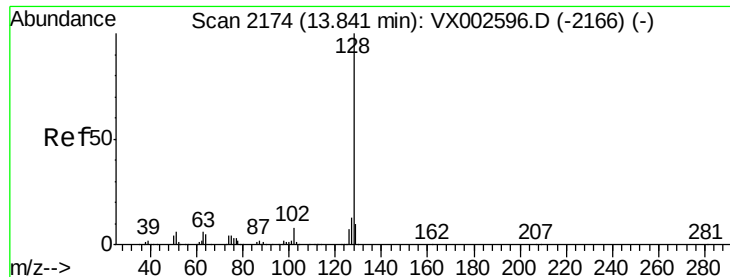
400

200

0

Time-->





#95

Naphthalene

Concen: 0.20 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. -0.01 min

Lab File: VX002734.D

Acq: 20 Jun 2018 11:40

Instrument :

MSVOA_X

ClientSampleId :

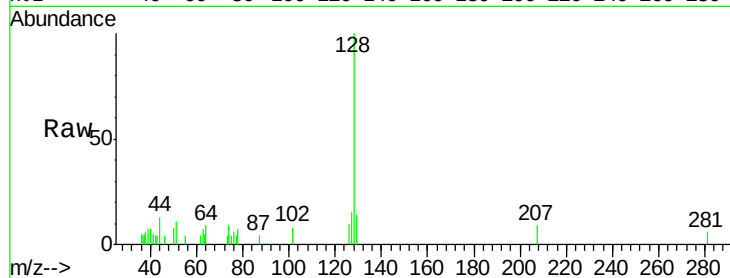
Tot Ion:128 Resp: 2120

Ion Ratio Lower Upper

128 100

127 15.7 10.4 15.6#

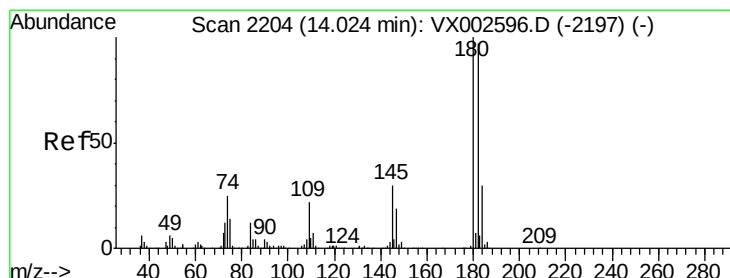
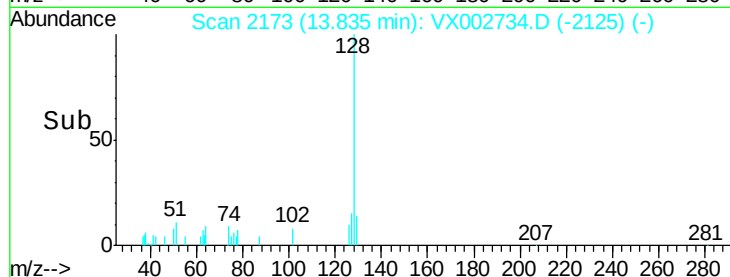
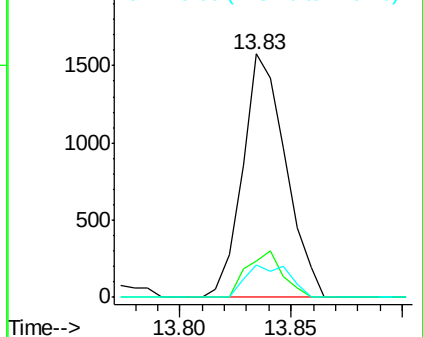
129 13.5 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.21 ug/l

RT: 14.03 min Scan# 2205

Delta R.T. 0.01 min

Lab File: VX002734.D

Acq: 20 Jun 2018 11:40

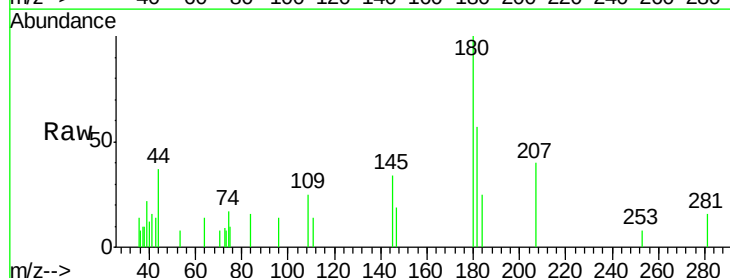
Tgt Ion:180 Resp: 815

Ion Ratio Lower Upper

180 100

182 94.7 48.0 144.0

145 34.5 14.8 44.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

