

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072118\
 Data File : VX003585.D
 Acq On : 22 Jul 2018 05:54
 Operator : JC/SP
 Sample : J4050-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY030SP003-180717

Quant Time: Jul 23 03:51:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071918W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 17:09:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	273387	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	456359	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	369977	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	208171	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	159918	49.42	ug/l	0.00
Spiked Amount			Recovery	=	98.84%	
35) Dibromofluoromethane	5.50	113	155902	44.85	ug/l	0.00
Spiked Amount			Recovery	=	89.70%	
50) Toluene-d8	8.72	98	549457	42.06	ug/l	0.00
Spiked Amount			Recovery	=	84.12%	
62) 4-Bromofluorobenzene	11.14	95	188142	39.46	ug/l	0.00
Spiked Amount			Recovery	=	78.92%	

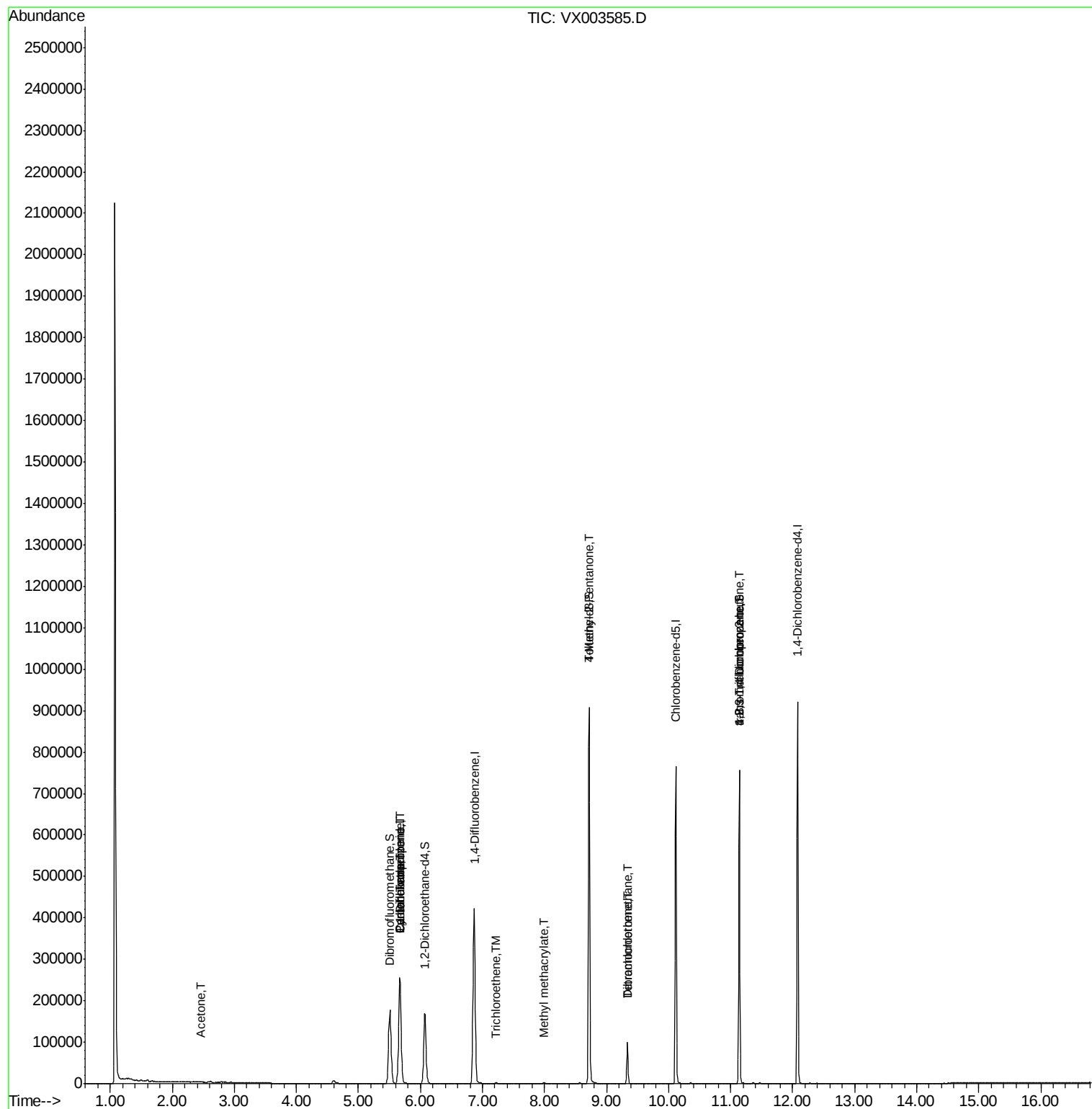
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	99	Below Cal	#	31
3) Chloromethane	1.32	50	502	Below Cal		89
5) Bromomethane	1.67	94	915	Below Cal		88
16) Acetone	2.45	43	2146	1.76	ug/l	94
20) Methylene Chloride	2.86	84	170	Below Cal	#	60
31) Cyclohexane	5.66	56	3930	0.81	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	16320	3.31	ug/l	# 49
38) Carbon Tetrachloride	5.66	117	23862	4.94	ug/l	# 18
44) Trichloroethene	7.22	130	926	0.21	ug/l	# 95
48) Methyl methacrylate	7.99	41	821	0.22	ug/l	# 35
51) 4-Methyl-2-Pentanone	8.72	43	2039	0.44	ug/l	# 1
60) Dibromochloromethane	9.34	129	18573	5.04	ug/l	# 11
64) Tetrachloroethene	9.34	164	20976	4.65	ug/l	# 98
76) 1,2,3-Trichloropropane	11.14	75	86874	23.23	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	86874	65.22	ug/l	# 7

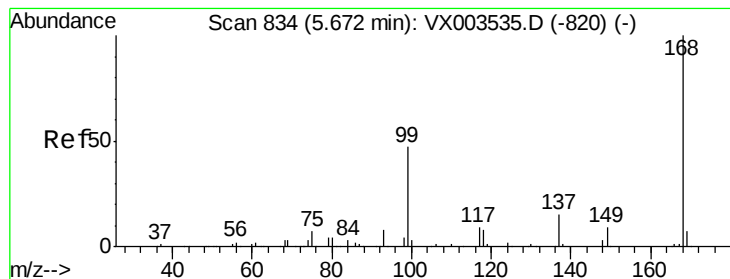
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003585.D

Acq: 22 Jul 2018 05:54

Instrument :

MSVOA_X

ClientSampleId :

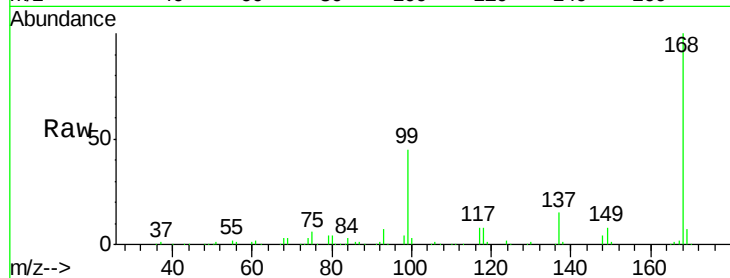
KY030SP003-180717

Tot Ion:168 Resp: 273387

Ion Ratio Lower Upper

168 100

99 44.8 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

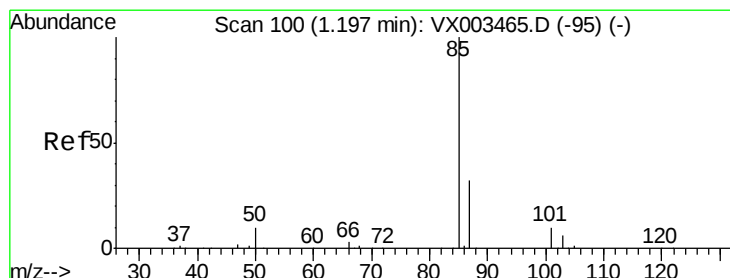
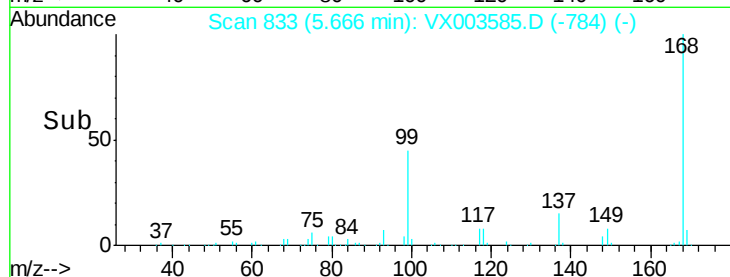
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003585.D

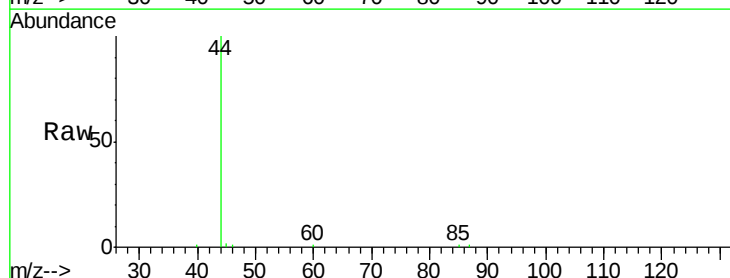
Acq: 22 Jul 2018 05:54

Tgt Ion: 85 Resp: 99

Ion Ratio Lower Upper

85 100

87 70.2 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

120

100

80

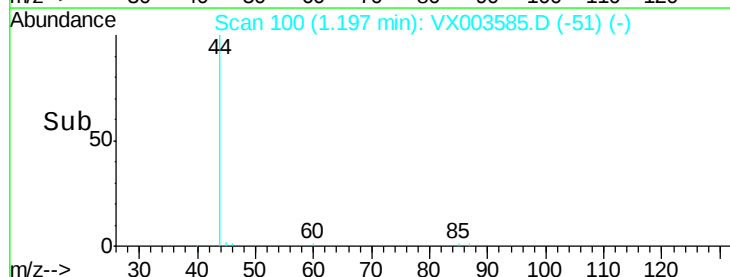
60

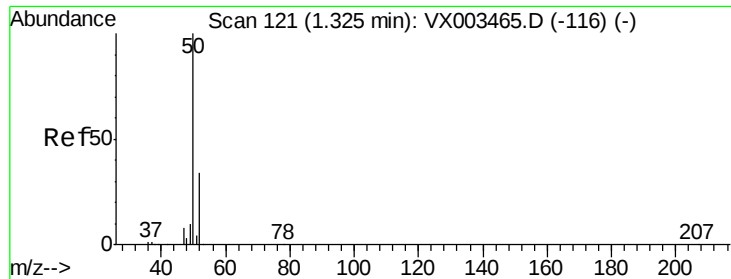
40

20

0

Time--> 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003585.D

Acq: 22 Jul 2018 05:54

Instrument :

MSVOA_X

ClientSampleId :

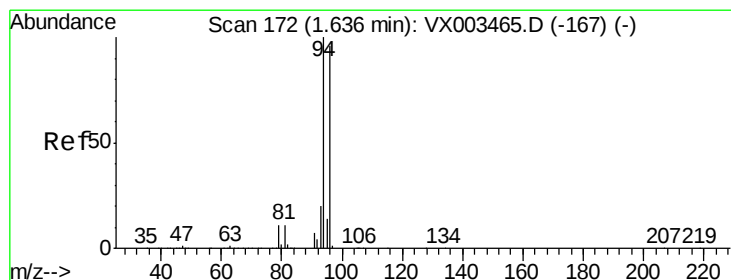
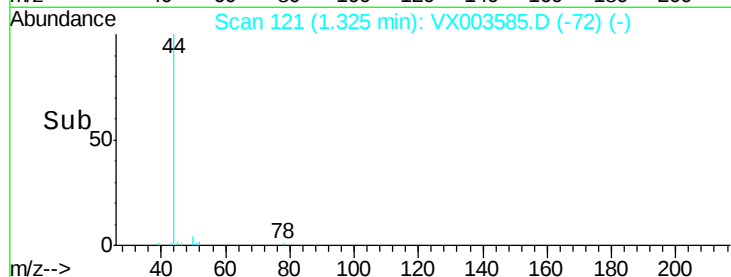
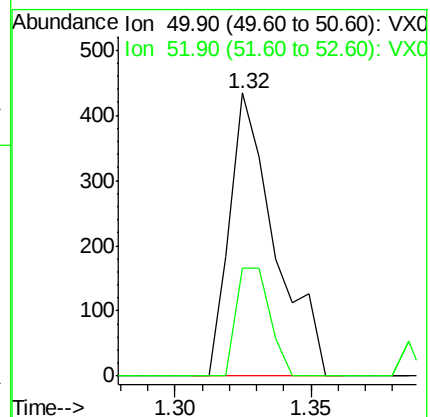
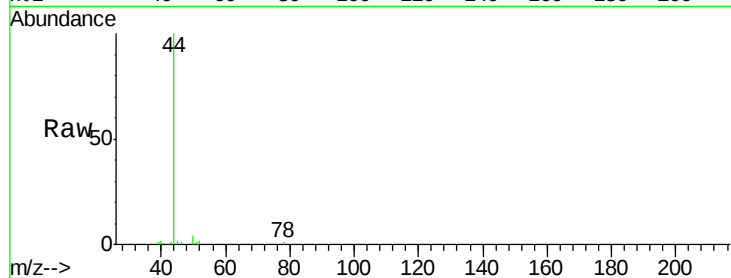
KY030SP003-180717

Tot Ion: 50 Resp: 502

Ion Ratio Lower Upper

50 100

52 38.2 25.7 38.5



#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX003585.D

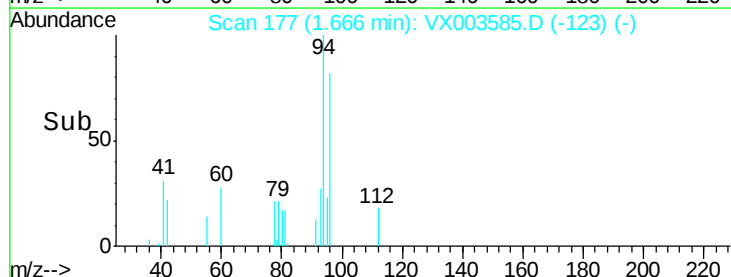
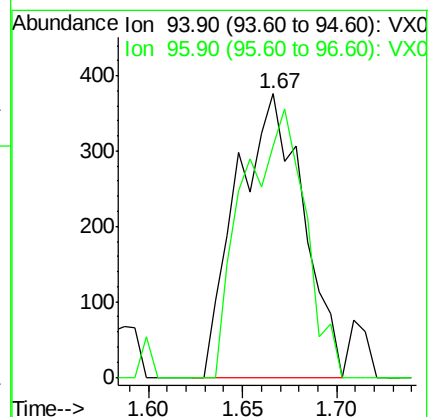
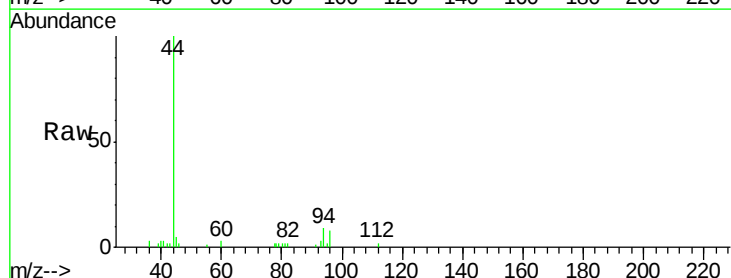
Acq: 22 Jul 2018 05:54

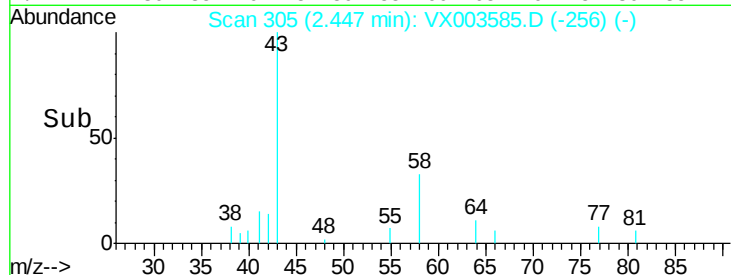
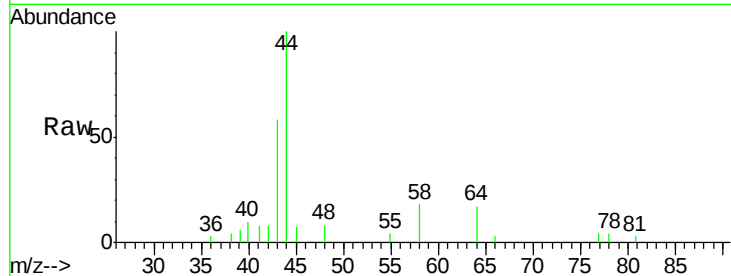
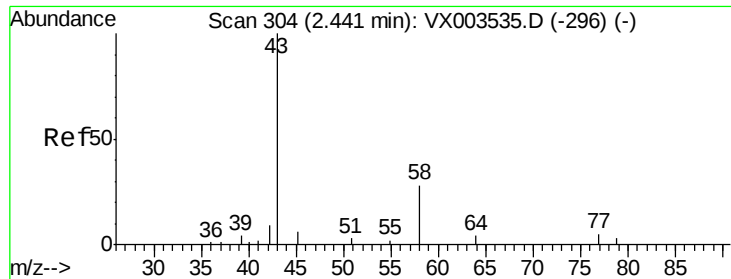
Tgt Ion: 94 Resp: 915

Ion Ratio Lower Upper

94 100

96 81.6 74.9 112.3





#16

Acetone

Concen: 1.76 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003585.D

Acq: 22 Jul 2018 05:54

Instrument :

MSVOA_X

ClientSampleId :

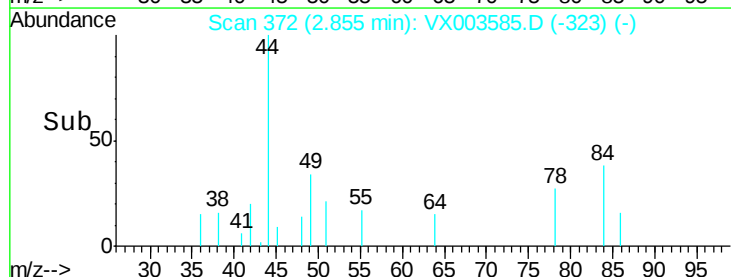
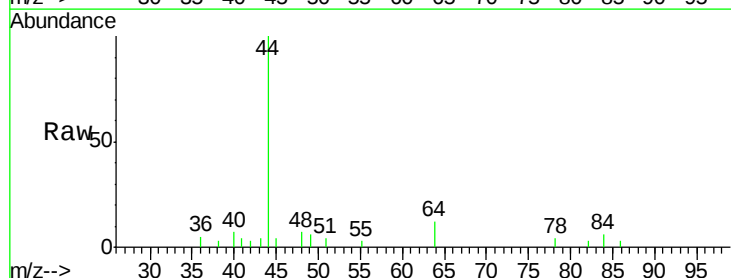
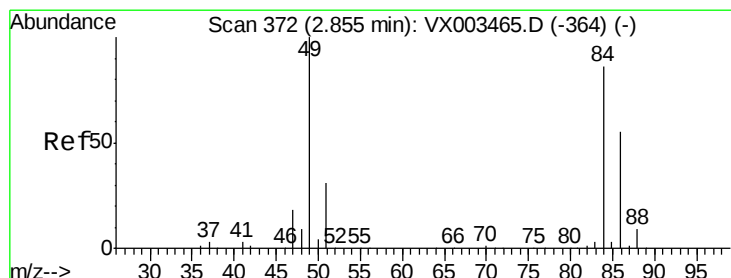
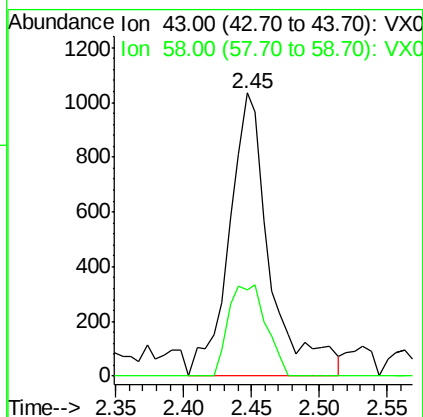
KY030SP003-180717

Tot Ion: 43 Resp: 2146

Ion Ratio Lower Upper

43 100

58 30.7 22.1 33.1



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 372

Delta R.T. 0.00 min

Lab File: VX003585.D

Acq: 22 Jul 2018 05:54

Tgt Ion: 84 Resp: 170

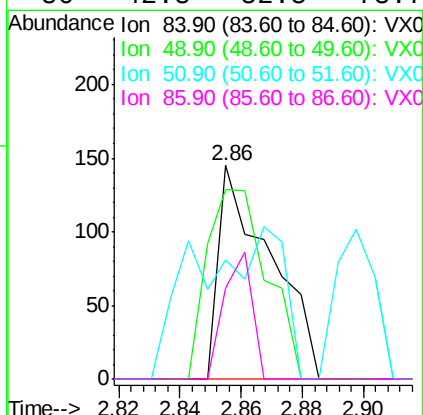
Ion Ratio Lower Upper

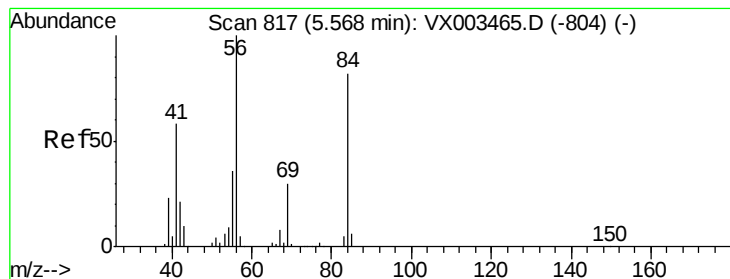
84 100

49 89.0 107.8 161.6#

51 1.4 32.8 49.2#

86 42.8 52.5 78.7#





#31

Cyclohexane

Concen: 0.81 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.09 min

Lab File: VX003585.D

Acq: 22 Jul 2018 05:54

Instrument :

MSVOA_X

ClientSampleId :

KY030SP003-180717

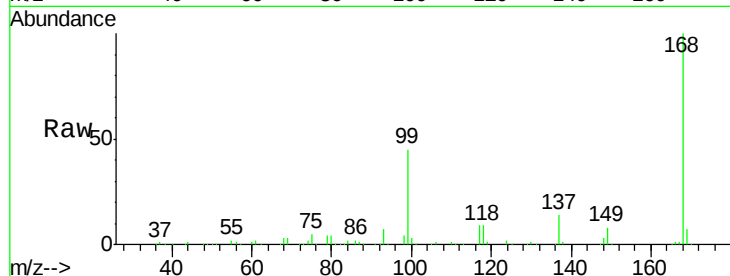
Tot Ion: 56 Resp: 3930

Ion Ratio Lower Upper

56 100

69 186.2 23.7 35.5#

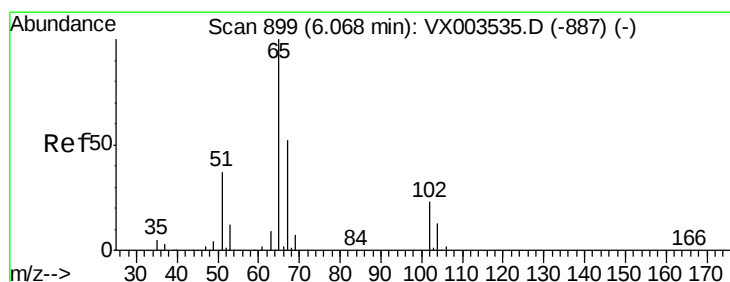
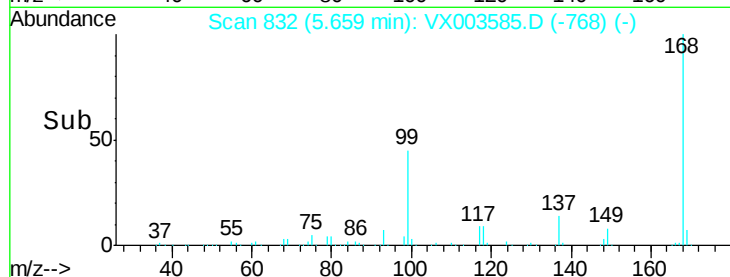
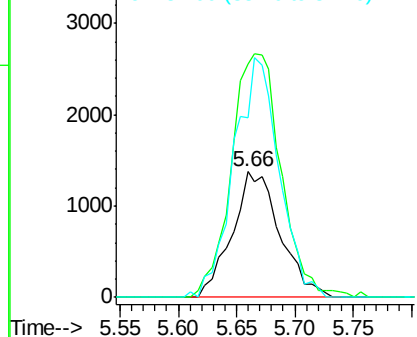
84 143.3 64.1 96.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 49.42 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX003585.D

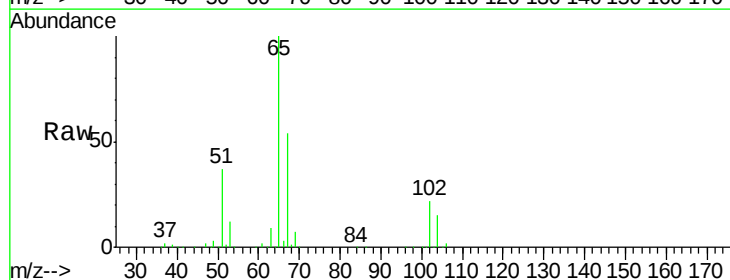
Acq: 22 Jul 2018 05:54

Tgt Ion: 65 Resp: 159918

Ion Ratio Lower Upper

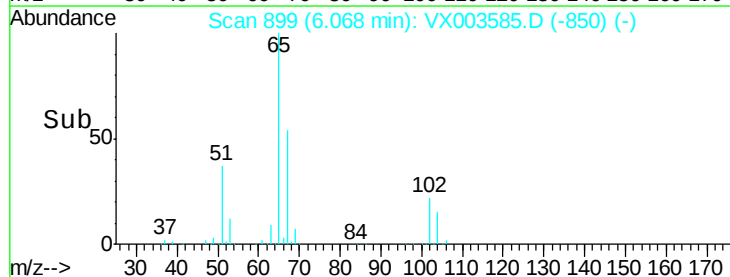
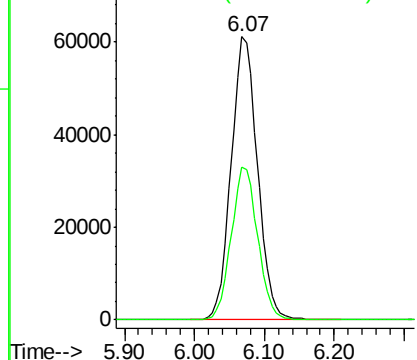
65 100

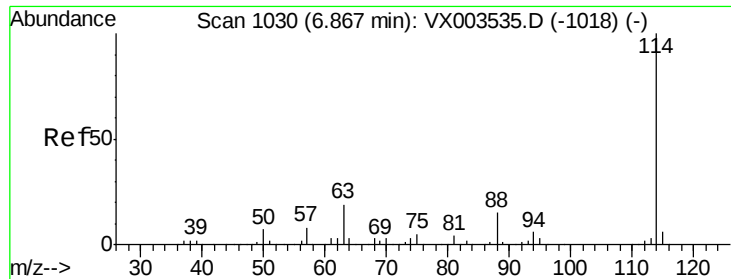
67 54.4 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

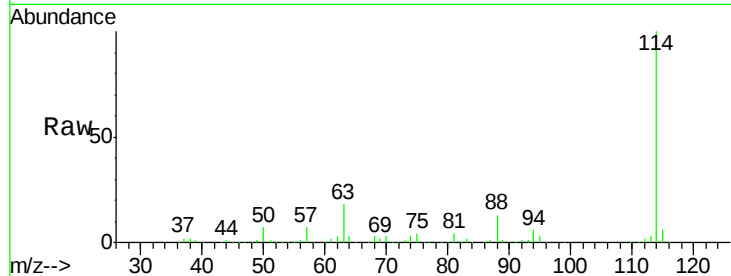




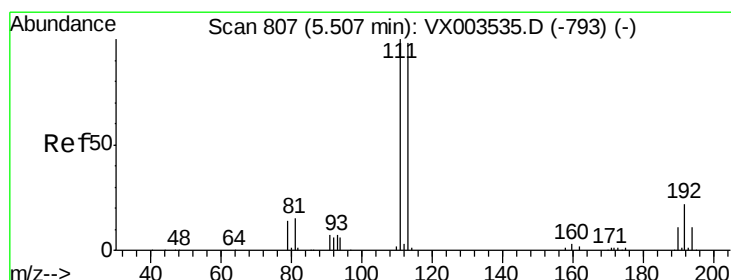
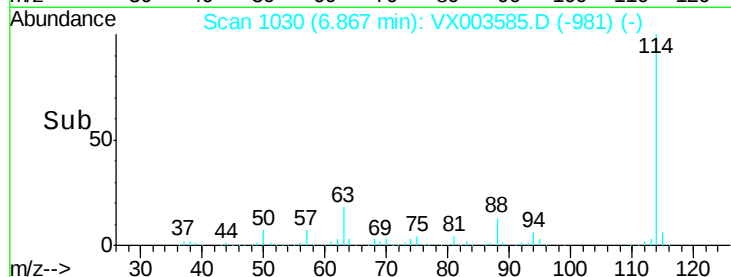
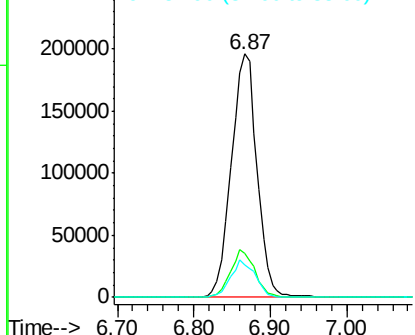
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003585.D
 Acq: 22 Jul 2018 05:54

Instrument :
 MSVOA_X
 ClientSampleId :
 KY030SP003-180717

Tot Ion:114 Resp: 456359
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 41.4
 88 13.4 0.0 30.0

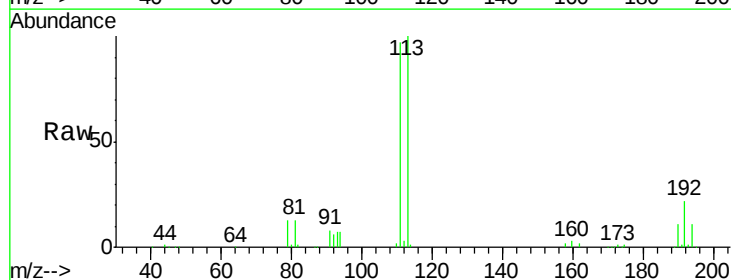


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

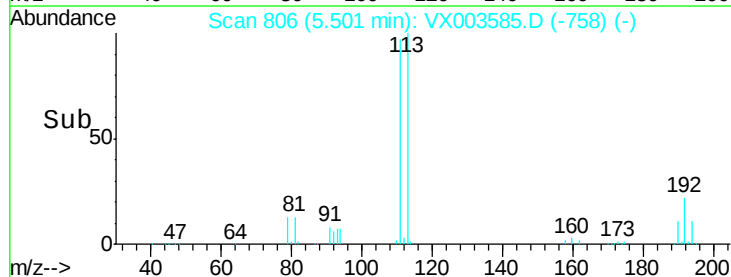
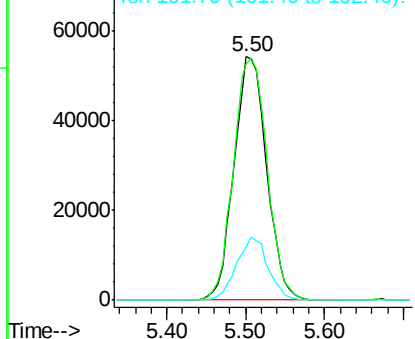


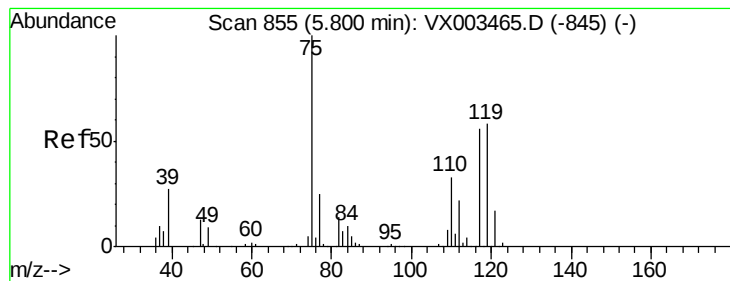
#35
 Dibromofluoromethane
 Concen: 44.85 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. -0.01 min
 Lab File: VX003585.D
 Acq: 22 Jul 2018 05:54

Tgt Ion:113 Resp: 155902
 Ion Ratio Lower Upper
 113 100
 111 102.8 81.4 122.0
 192 25.0 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: 3.31 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003585.D

Acq: 22 Jul 2018 05:54

Instrument :

MSVOA_X

ClientSampleId :

KY030SP003-180717

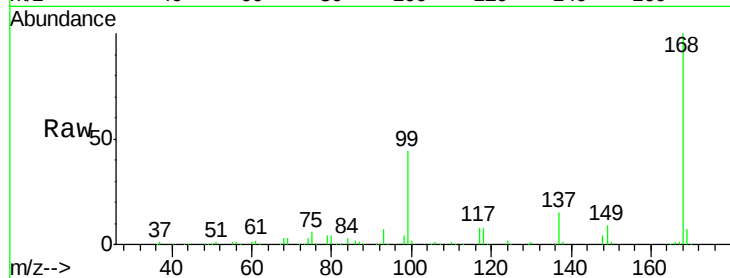
Tot Ion: 75 Resp: 16320

Ion Ratio Lower Upper

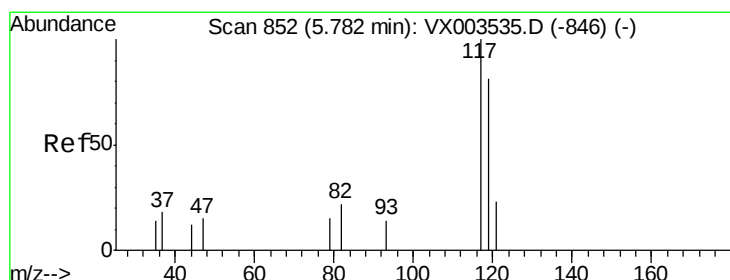
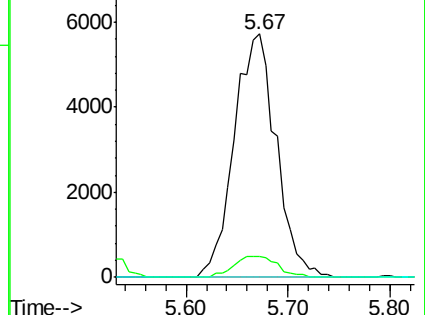
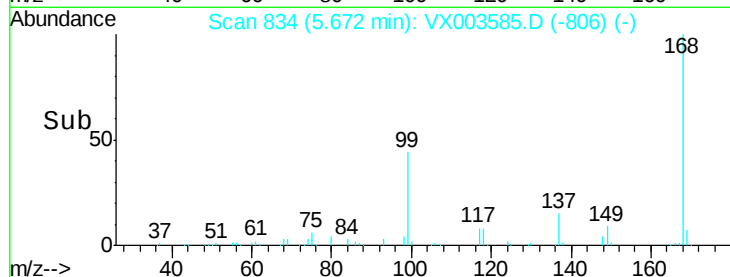
75 100

110 9.1 18.1 54.4#

77 0.0 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VX003585.D (-806) (-)



#38

Carbon Tetrachloride

Concen: 4.94 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.12 min

Lab File: VX003585.D

Acq: 22 Jul 2018 05:54

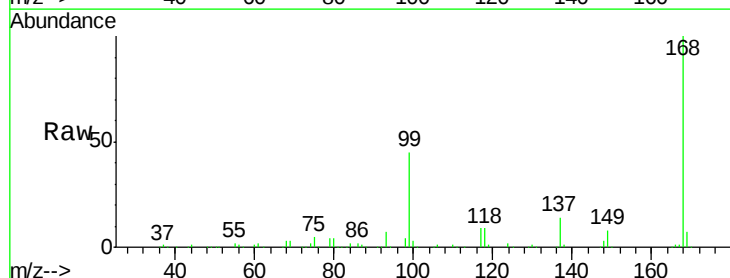
Tgt Ion: 117 Resp: 23862

Ion Ratio Lower Upper

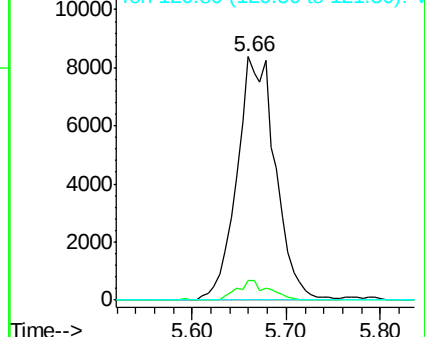
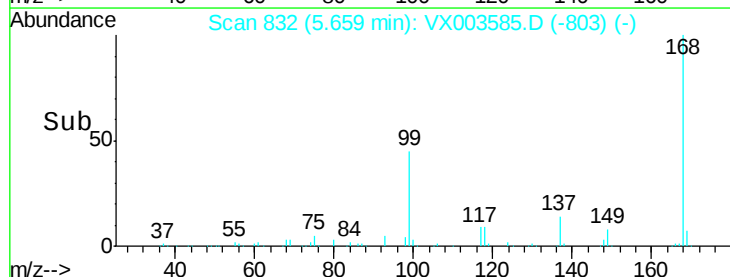
117 100

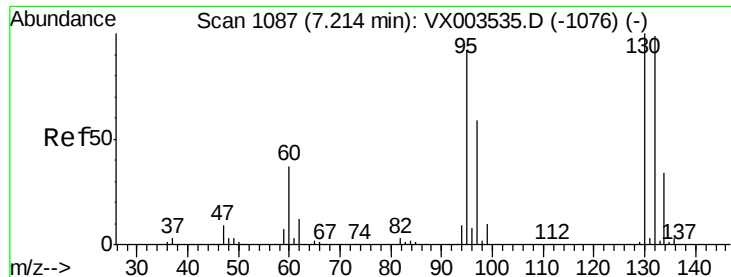
119 7.9 77.4 116.0#

121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): VX003585.D (-803) (-)





#44

Trichloroethene

Concen: 0.21 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX003585.D

Acq: 22 Jul 2018 05:54

Instrument :

MSVOA_X

ClientSampleId :

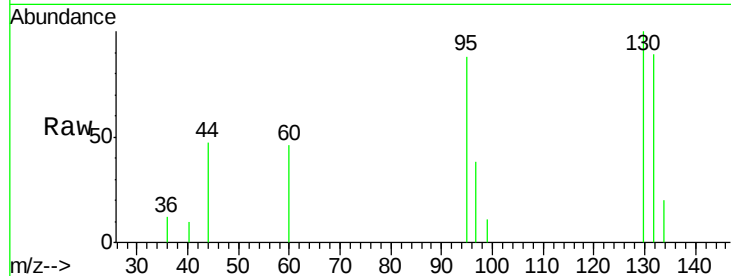
KY030SP003-180717

Tot Ion:130 Resp: 926

Ion Ratio Lower Upper

130 100

95 87.9 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.22

600

500

400

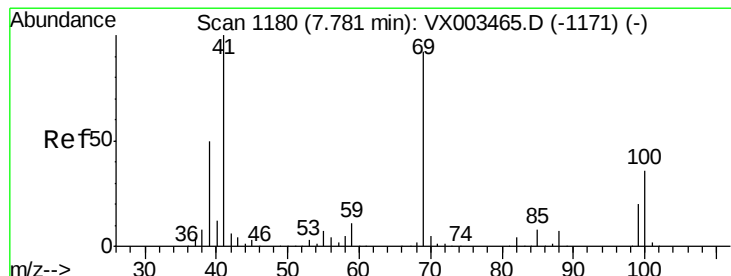
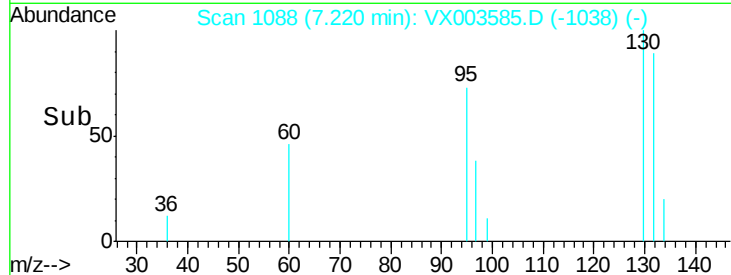
300

200

100

0

Time--> 7.15 7.20 7.25



#48

Methyl methacrylate

Concen: 0.22 ug/l

RT: 7.99 min Scan# 1214

Delta R.T. 0.21 min

Lab File: VX003585.D

Acq: 22 Jul 2018 05:54

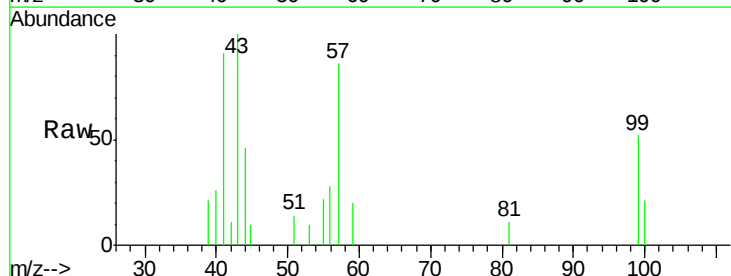
Tgt Ion: 41 Resp: 821

Ion Ratio Lower Upper

41 100

69 0.0 59.1 88.7#

39 32.5 48.9 73.3#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

600

500

400

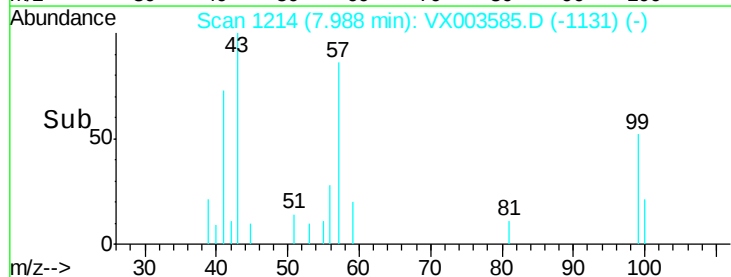
300

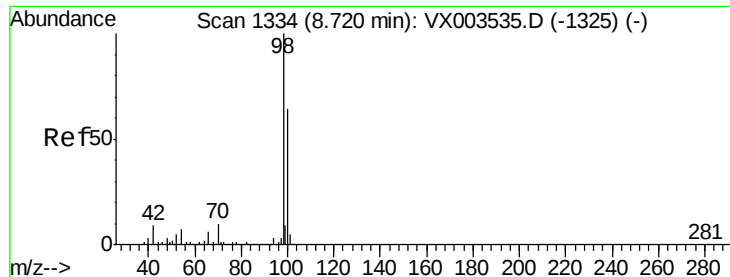
200

100

0

Time--> 7.95 8.00 8.05





#50

Toluene-d8

Concen: 42.06 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003585.D

Acq: 22 Jul 2018 05:54

Instrument :

MSVOA_X

ClientSampleId :

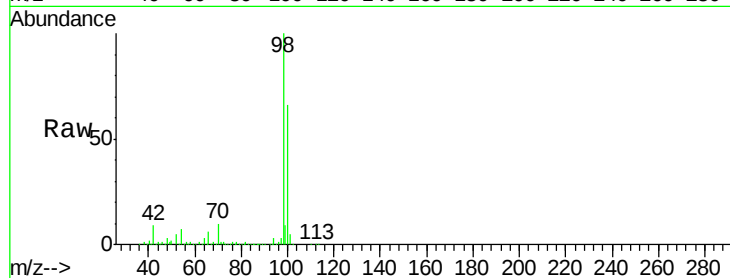
KY030SP003-180717

Tot Ion: 98 Resp: 549457

Ion Ratio Lower Upper

98 100

100 64.9 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.72

400000

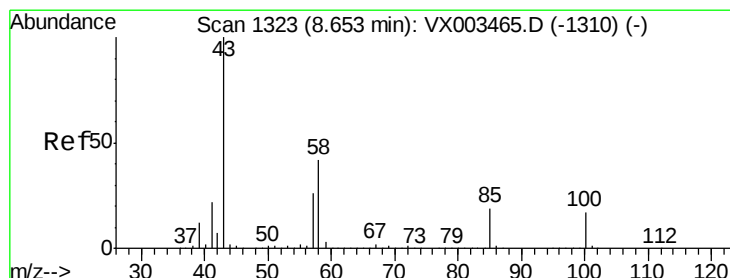
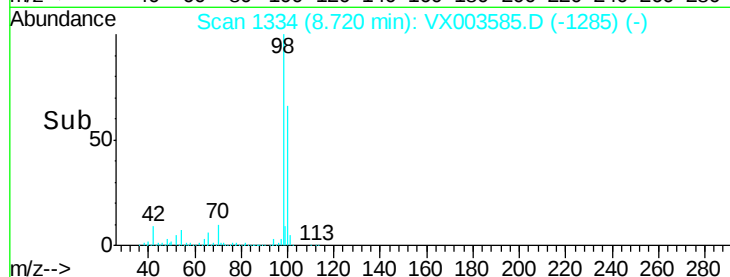
300000

200000

100000

0

Time--> 8.60 8.70 8.80



#51

4-Methyl-2-Pentanone

Concen: 0.44 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.07 min

Lab File: VX003585.D

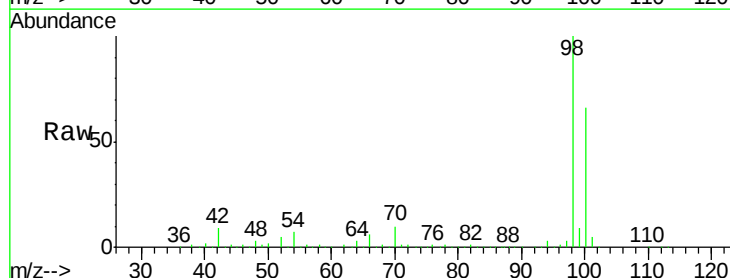
Acq: 22 Jul 2018 05:54

Tgt Ion: 43 Resp: 2039

Ion Ratio Lower Upper

43 100

58 199.6 28.6 42.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

3000

2500

2000

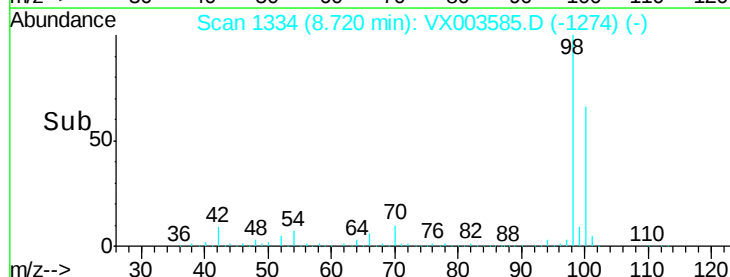
1500

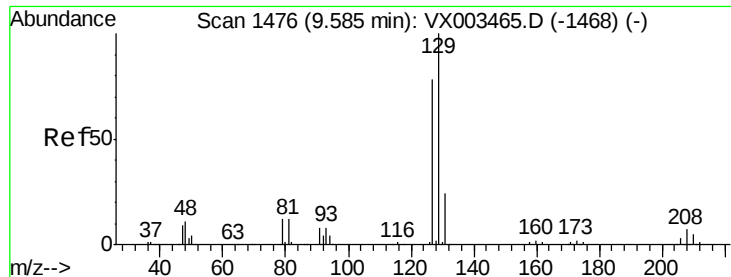
1000

500

0

Time--> 8.65 8.70 8.75

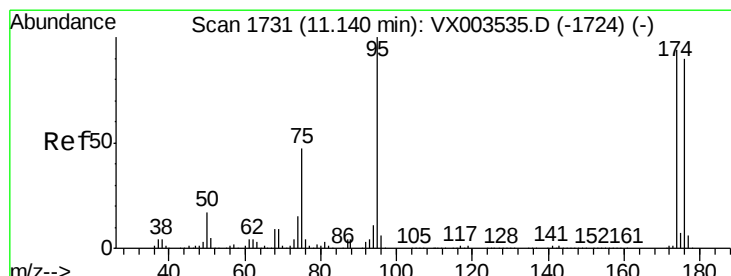
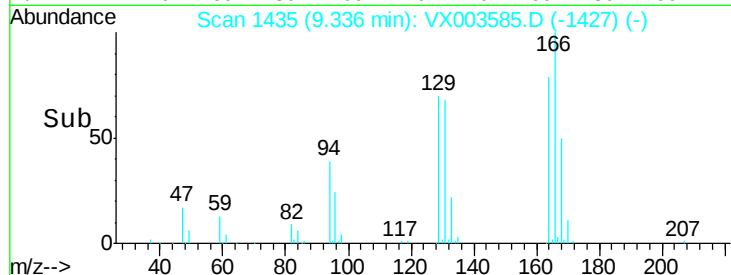
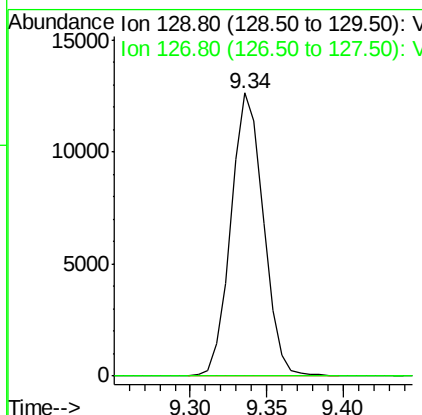
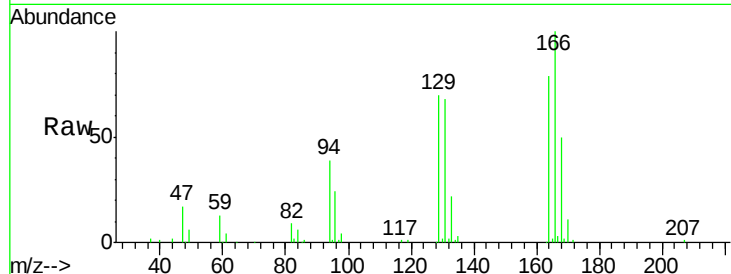




#60
 Dibromochloromethane
 Concen: 5.04 ug/l
 RT: 9.34 min Scan# 1435
 Delta R.T. -0.25 min
 Lab File: VX003585.D
 Acq: 22 Jul 2018 05:54

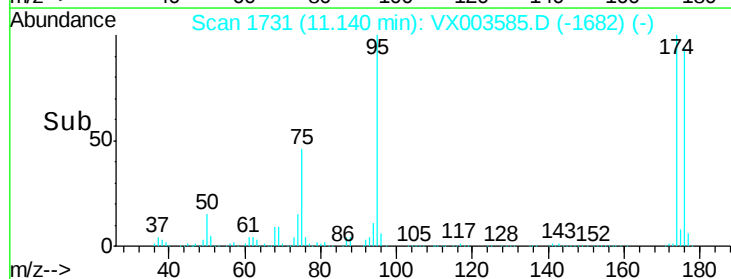
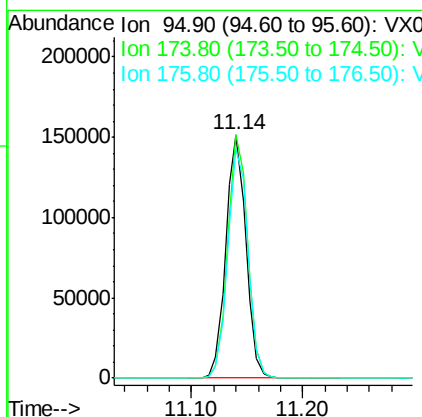
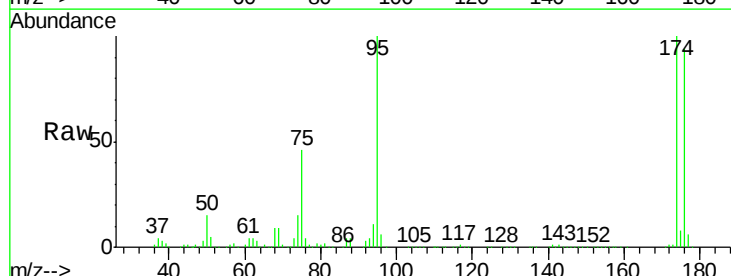
Instrument :
 MSVOA_X
 ClientSampleId :
 KY030SP003-180717

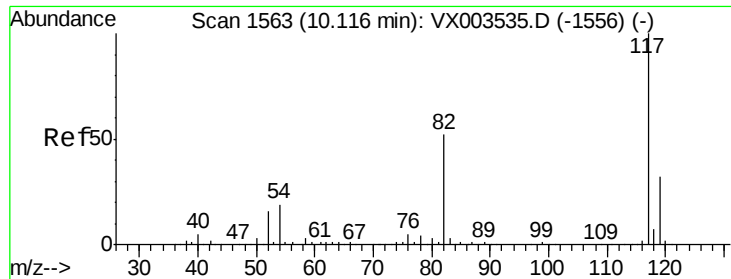
Tot Ion:129 Resp: 18573
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.5 115.3#



#62
 4-Bromofluorobenzene
 Concen: 39.46 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.00 min
 Lab File: VX003585.D
 Acq: 22 Jul 2018 05:54

Tgt Ion: 95 Resp: 188142
 Ion Ratio Lower Upper
 95 100
 174 100.2 0.0 187.4
 176 95.6 0.0 181.0

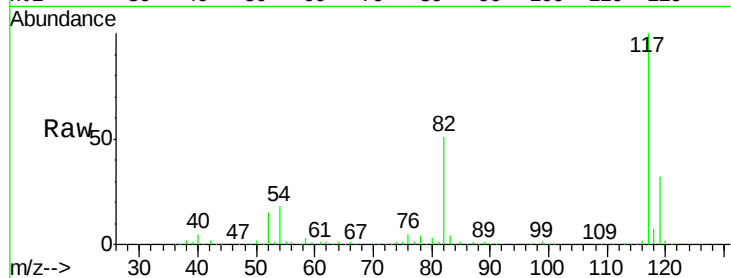




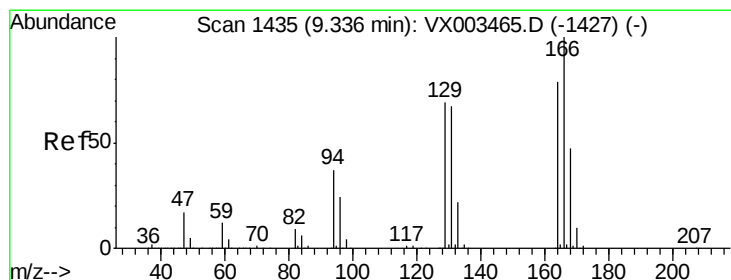
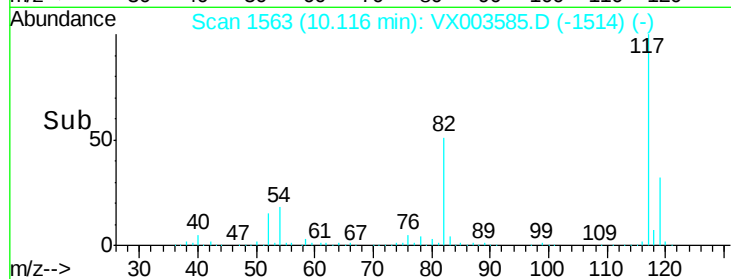
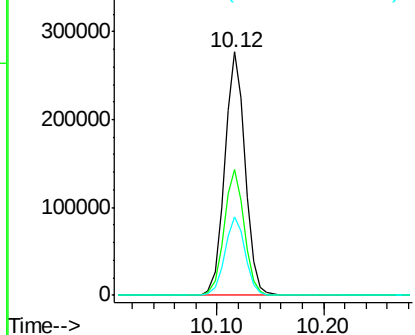
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003585.D
Acq: 22 Jul 2018 05:54

Instrument :
MSVOA_X
ClientSampleId :
KY030SP003-180717

Tot Ion:117 Resp: 369977
Ion Ratio Lower Upper
117 100
82 51.5 45.0 67.4
119 32.4 25.8 38.6

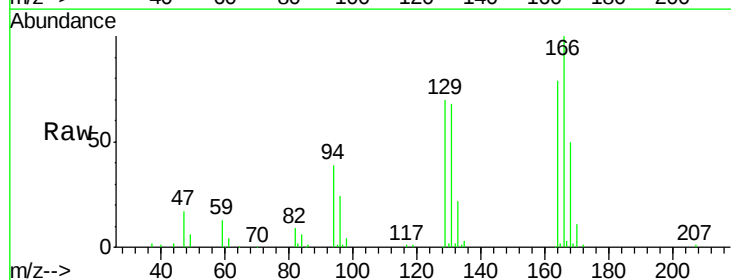


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

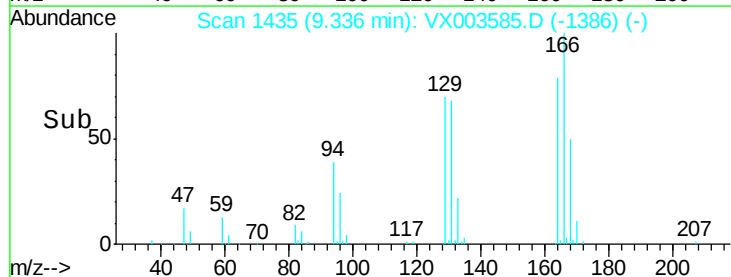
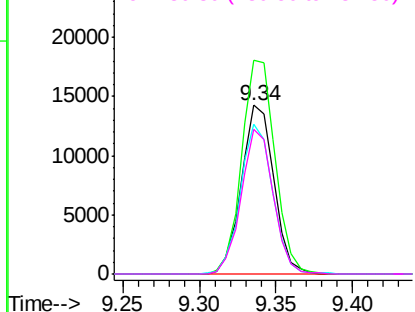


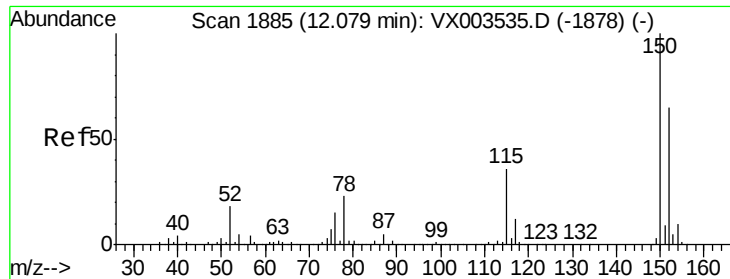
#64
Tetrachloroethene
Concen: 4.65 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. 0.00 min
Lab File: VX003585.D
Acq: 22 Jul 2018 05:54

Tgt Ion:164 Resp: 20976
Ion Ratio Lower Upper
164 100
166 126.5 102.9 154.3
129 88.4 68.6 102.8
131 85.6 66.8 100.2



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003585.D

Acq: 22 Jul 2018 05:54

Instrument :

MSVOA_X

ClientSampleId :

KY030SP003-180717

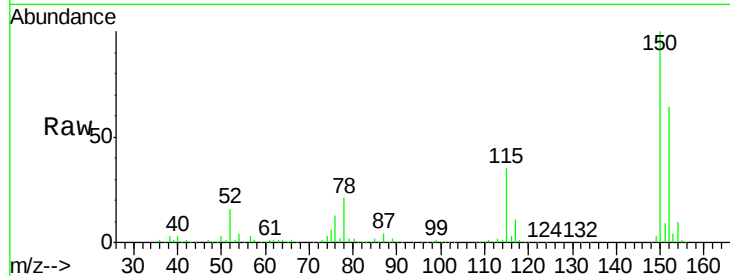
Tot Ion:152 Resp: 208171

Ion Ratio Lower Upper

152 100

115 52.9 40.1 120.2

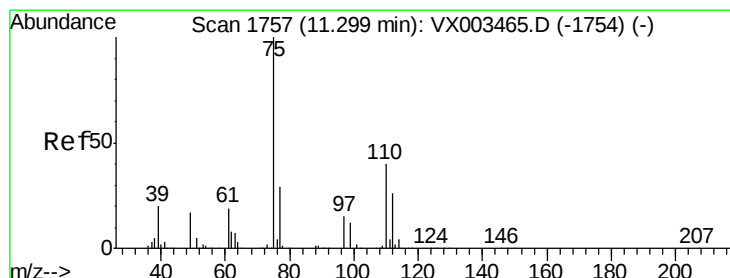
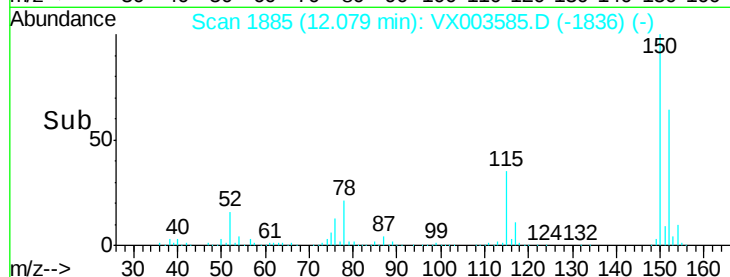
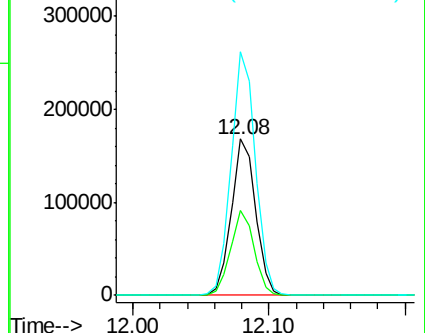
150 156.0 0.0 347.2



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: 23.23 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003585.D

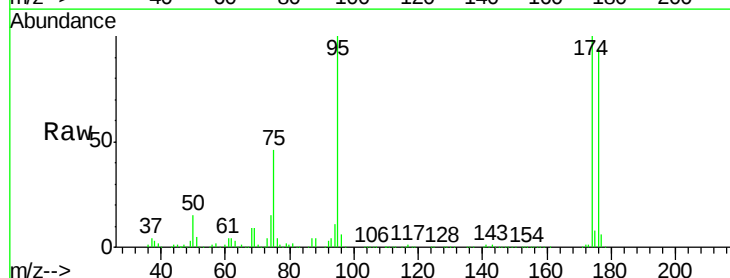
Acq: 22 Jul 2018 05:54

Tgt Ion: 75 Resp: 86874

Ion Ratio Lower Upper

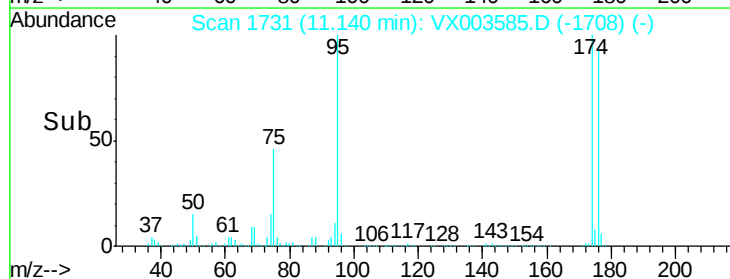
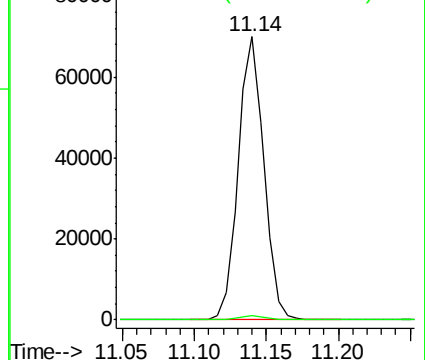
75 100

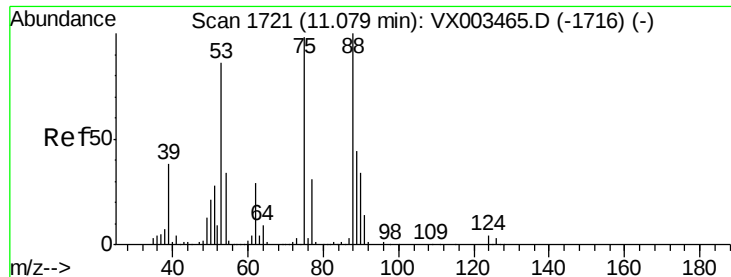
77 1.5 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 65.22 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003585.D

Acq: 22 Jul 2018 05:54

Instrument :

MSVOA_X

ClientSampleId :

KY030SP003-180717

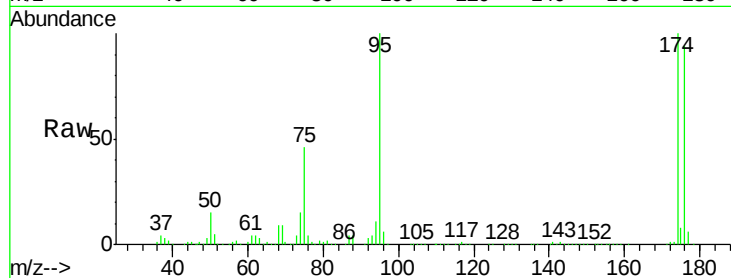
Tot Ion: 75 Resp: 86874

Ion Ratio Lower Upper

75 100

53 0.2 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

