

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061418\
 Data File : VX002575.D
 Acq On : 15 Jun 2018 02:30
 Operator : JC/MD
 Sample : PB110227ZHE#13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 15 03:23:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 05 03:22:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	231504	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	336024	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	319280	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	183193	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	160795	48.46	ug/l	0.00
Spiked Amount			Recovery	=	96.92%	
35) Dibromofluoromethane	5.51	113	120667	45.66	ug/l	0.00
Spiked Amount			Recovery	=	91.32%	
50) Toluene-d8	8.72	98	483303	47.72	ug/l	0.00
Spiked Amount			Recovery	=	95.44%	
62) 4-Bromofluorobenzene	11.14	95	174069	44.57	ug/l	0.00
Spiked Amount			Recovery	=	89.14%	

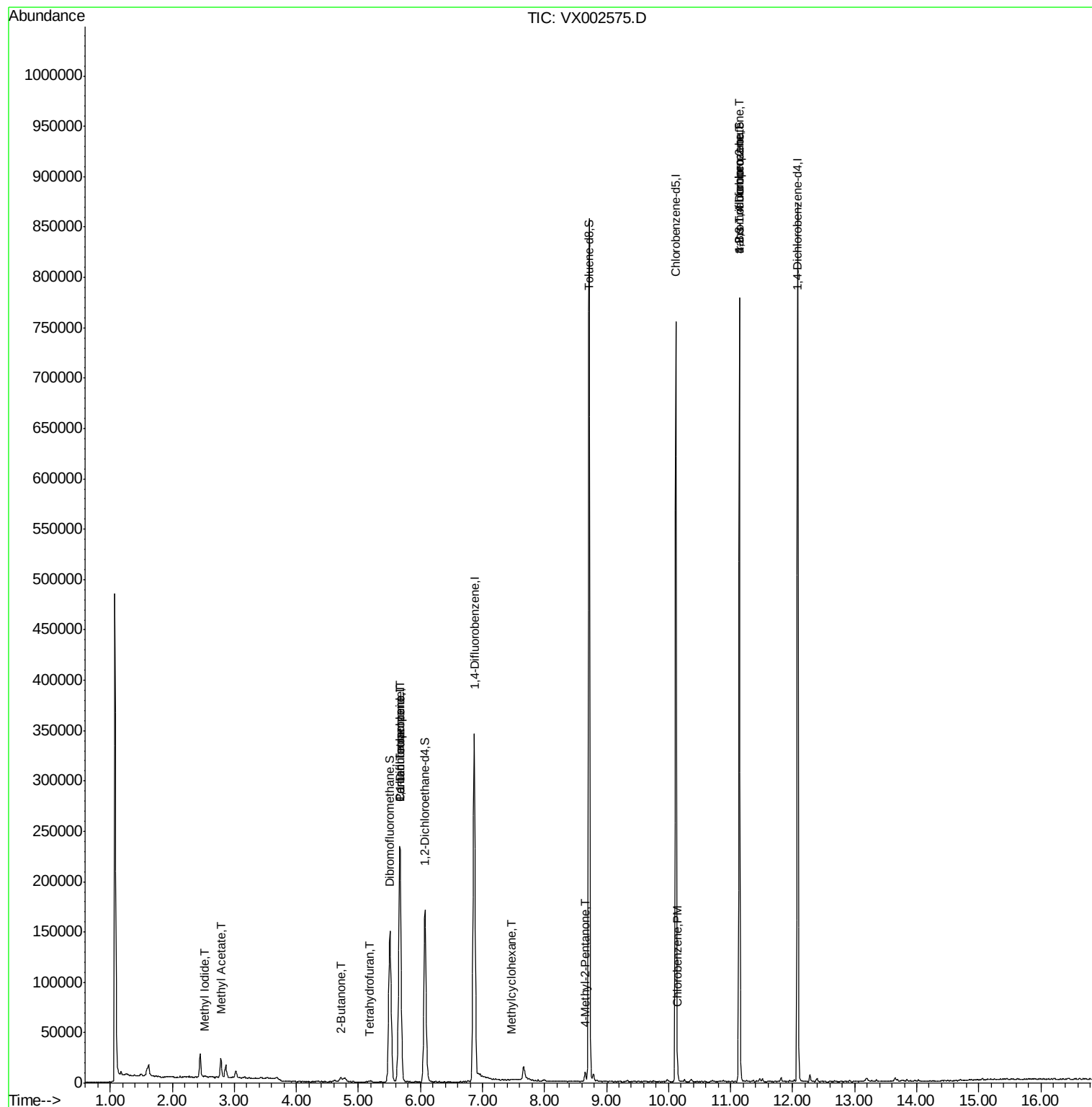
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	412	Below Cal	#	75
5) Bromomethane	1.65	94	797	Below Cal	#	65
8) Diethyl Ether	2.20	74	189	Below Cal		72
10) Methyl Iodide	2.53	142	1138	0.32	ug/l	# 91
11) Tert butyl alcohol	3.03	59	3736	Below Cal	#	80
13) Acrolein	2.29	56	171	Below Cal	#	9
15) Acrylonitrile	3.14	53	149	Below Cal	#	1
16) Acetone	2.45	43	25093	Below Cal		99
18) Methyl Acetate	2.78	43	22422	4.29	ug/l	97
19) Methyl tert-butyl Ether	3.20	73	49	Below Cal	#	54
20) Methylene Chloride	2.86	84	5876	Below Cal		93
22) Diisopropyl ether	3.89	45	147	Below Cal	#	40
25) 2-Butanone	4.71	43	7000	3.08	ug/l	95
28) Bromochloromethane	5.09	49	19	Below Cal	#	13
29) Tetrahydrofuran	5.18	42	1483	1.01	ug/l	# 79
36) 1,1-Dichloropropene	5.67	75	16982	4.81	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	21712	5.88	ug/l	# 16
39) Methylcyclohexane	7.46	83	298	0.33	ug/l	# 74
51) 4-Methyl-2-Pentanone	8.65	43	5623	1.25	ug/l	100
65) Chlorobenzene	10.15	112	2633	0.33	ug/l	89
76) 1,2,3-Trichloropropane	11.14	75	94929	23.62	ug/l	# 32
81) trans-1,4-Dichloro-2-buten	11.14	75	94929	82.78	ug/l	# 7

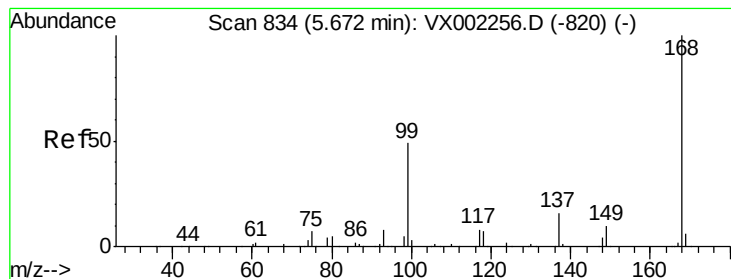
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
Quant Title : SW846 8260
QLast Update : Tue Jun 05 03:22:35 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: VX002575.D

Acq: 15 Jun 2018 02:30

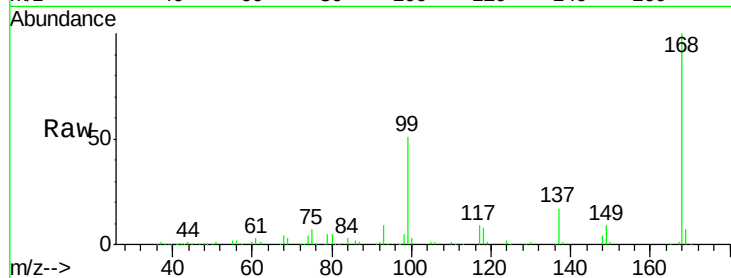
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 231504

Ion Ratio Lower Upper

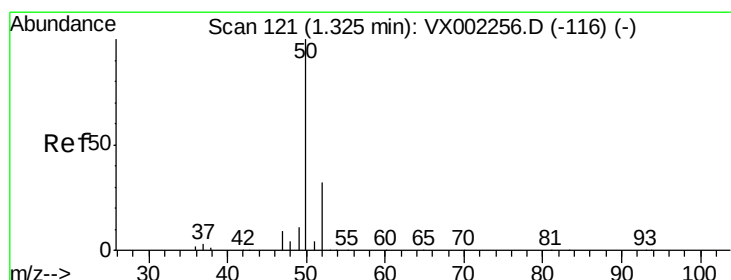
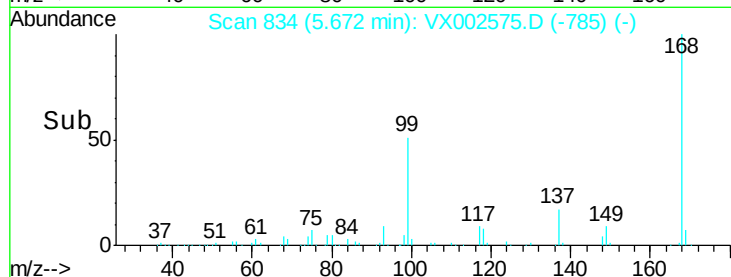
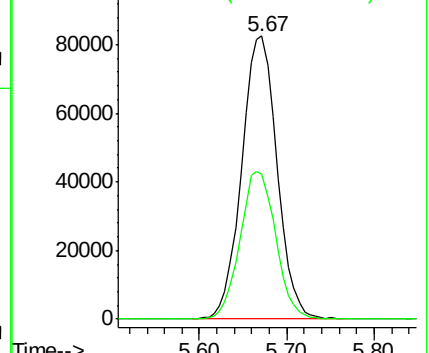
168 100

99 51.4 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: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002575.D

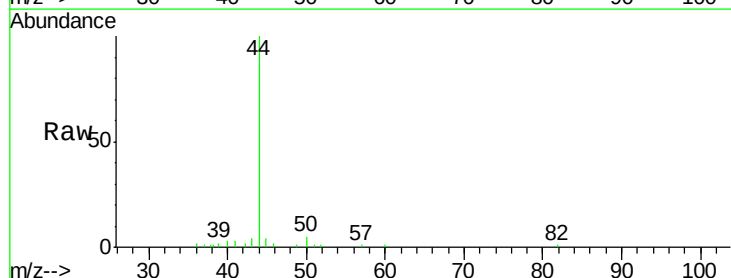
Acq: 15 Jun 2018 02:30

Tgt Ion: 50 Resp: 412

Ion Ratio Lower Upper

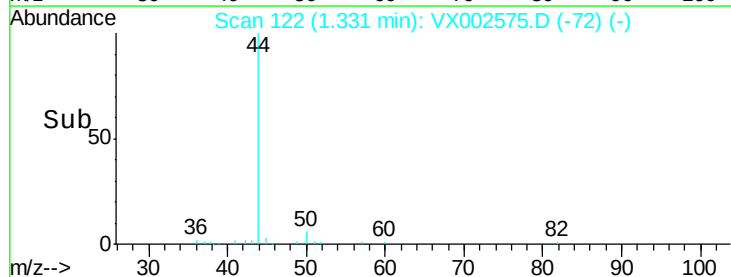
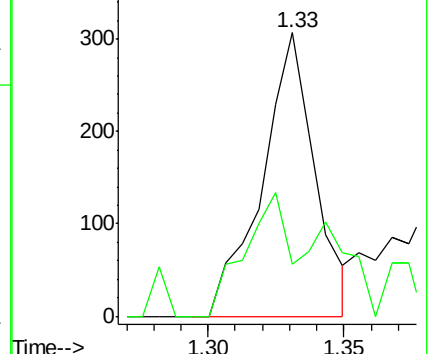
50 100

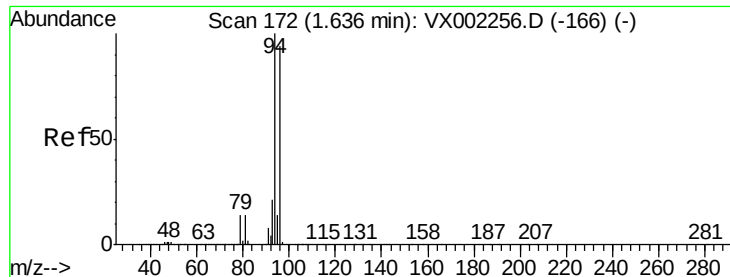
52 18.2 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002575.D

Acq: 15 Jun 2018 02:30

Instrument :

MSVOA_X

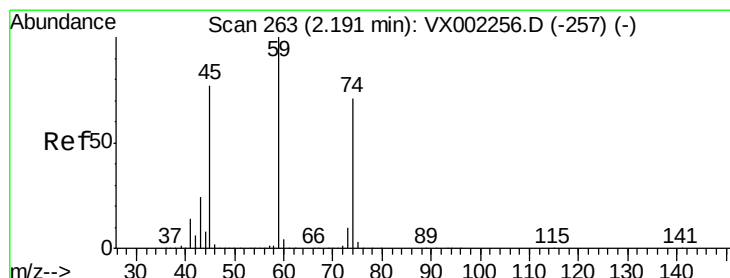
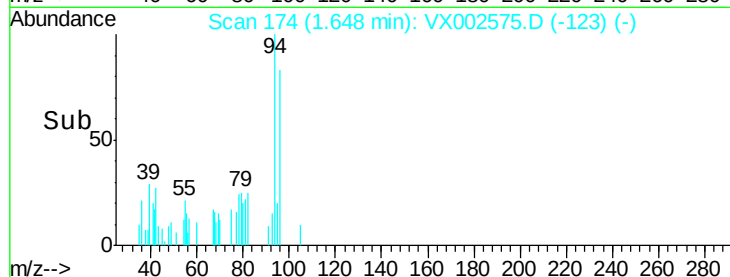
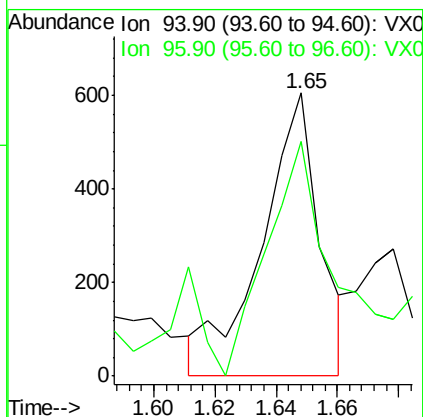
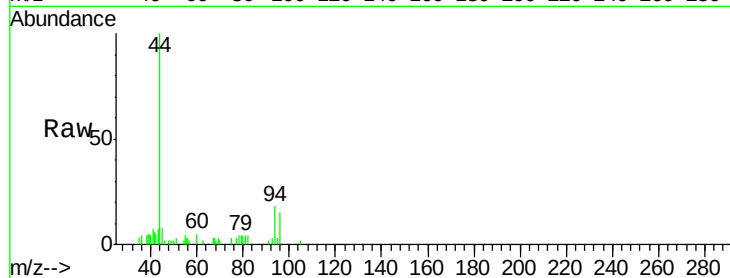
ClientSampled :

Tot Ion: 94 Resp: 797

Ion Ratio Lower Upper

94 100

96 59.6 74.9 112.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX002575.D

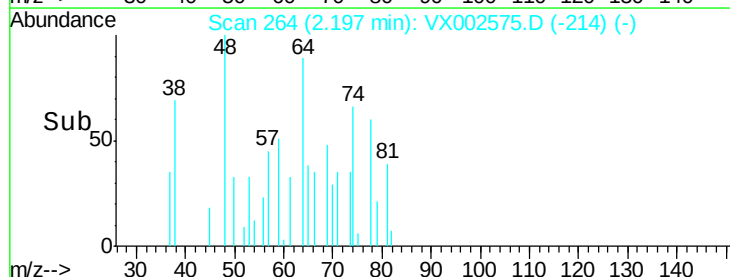
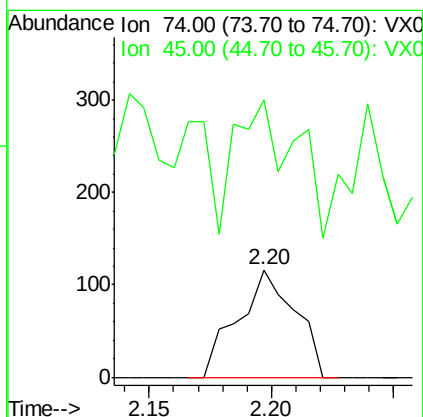
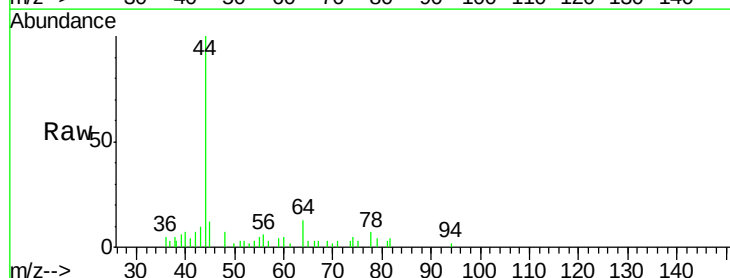
Acq: 15 Jun 2018 02:30

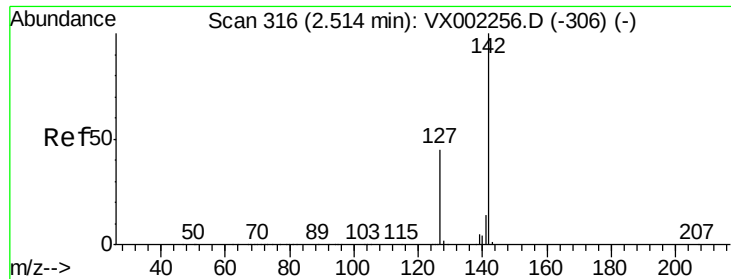
Tgt Ion: 74 Resp: 189

Ion Ratio Lower Upper

74 100

45 135.4 53.1 159.4

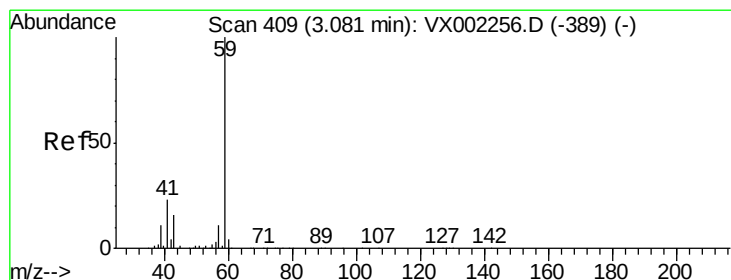
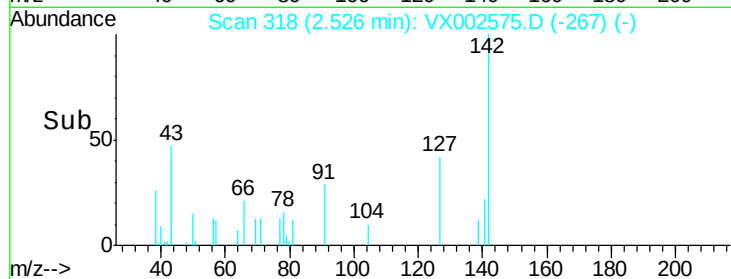
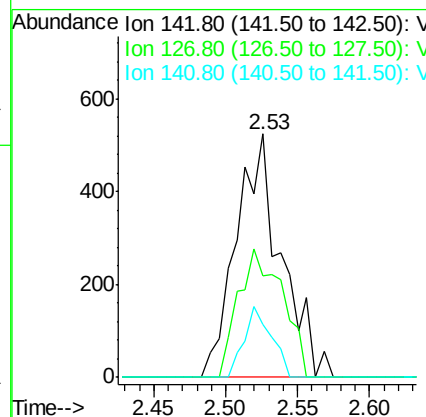
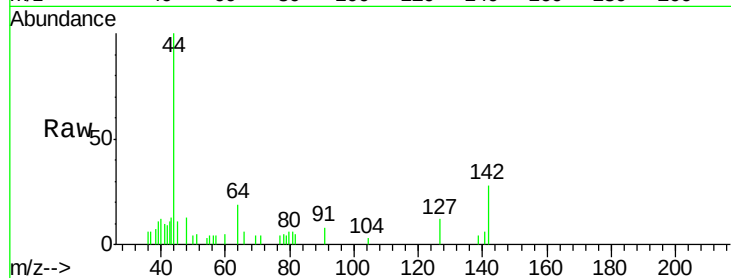




#10
Methyl Iodide
Concen: 0.32 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX002575.D
Acq: 15 Jun 2018 02:30

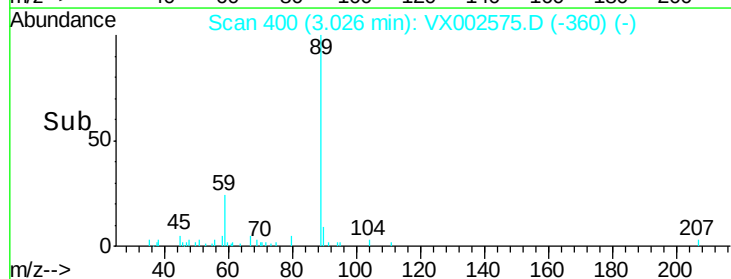
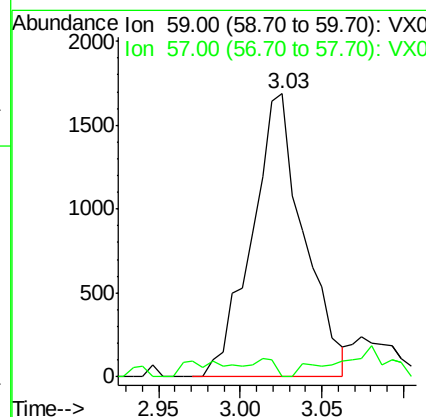
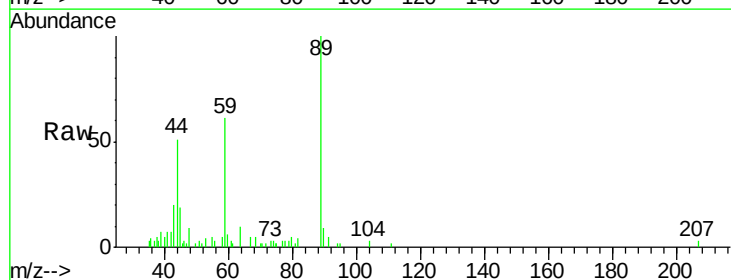
Instrument :
MSVOA_X
ClientSampled :

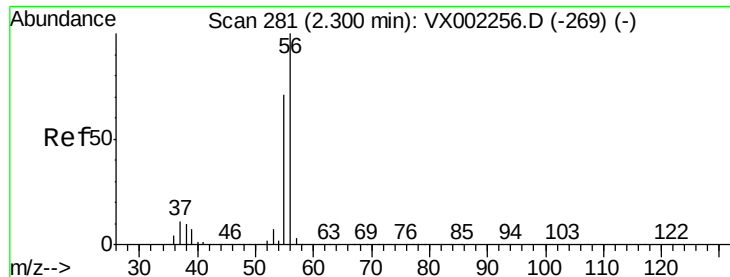
Tot Ion:142 Resp: 1138
Ion Ratio Lower Upper
142 100
127 51.8 36.6 55.0
141 17.5 11.3 16.9#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.03 min Scan# 400
Delta R.T. -0.05 min
Lab File: VX002575.D
Acq: 15 Jun 2018 02:30

Tgt Ion: 59 Resp: 3736
Ion Ratio Lower Upper
59 100
57 2.8 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX002575.D

Acq: 15 Jun 2018 02:30

Instrument :

MSVOA_X

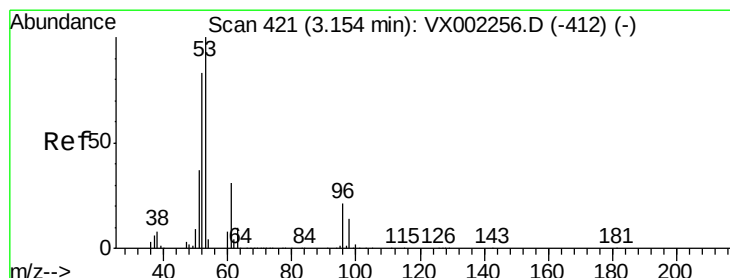
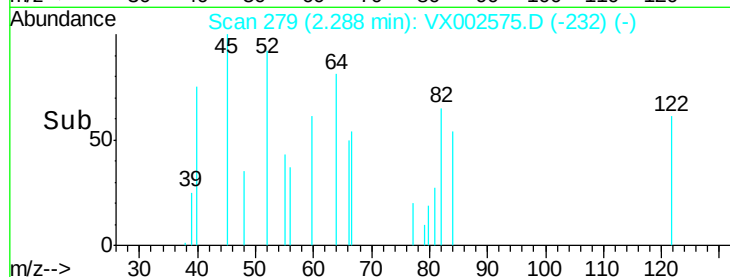
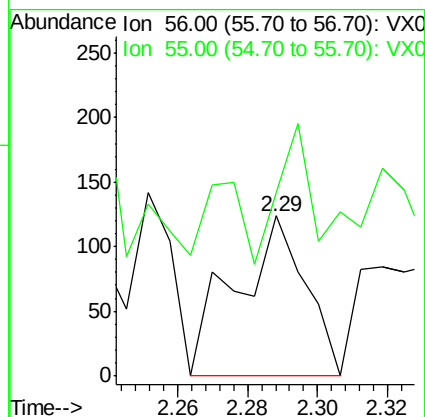
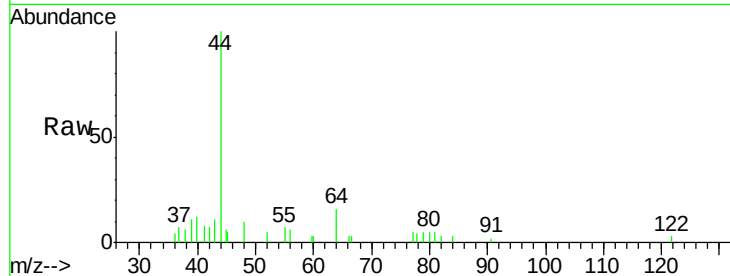
ClientSampleId :

Tot Ion: 56 Resp: 171

Ion Ratio Lower Upper

56 100

55 146.2 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.14 min Scan# 419

Delta R.T. -0.01 min

Lab File: VX002575.D

Acq: 15 Jun 2018 02:30

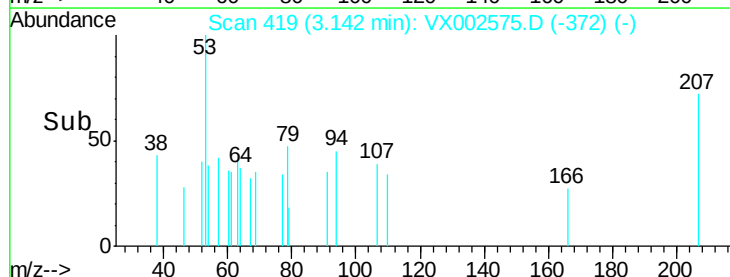
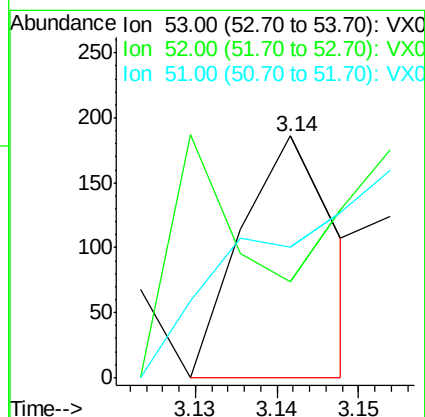
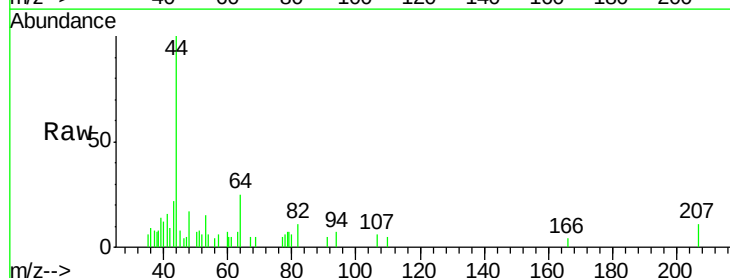
Tgt Ion: 53 Resp: 149

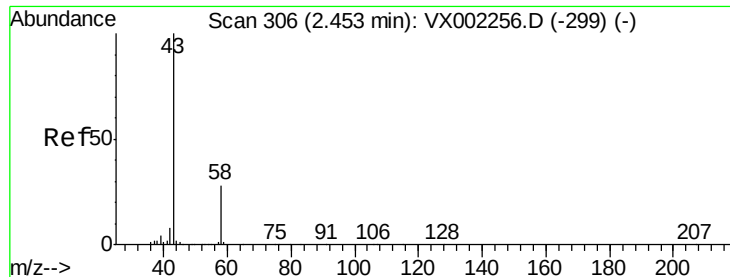
Ion Ratio Lower Upper

53 100

52 165.8 66.7 100.1#

51 209.4 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002575.D

Acq: 15 Jun 2018 02:30

Instrument :

MSVOA_X

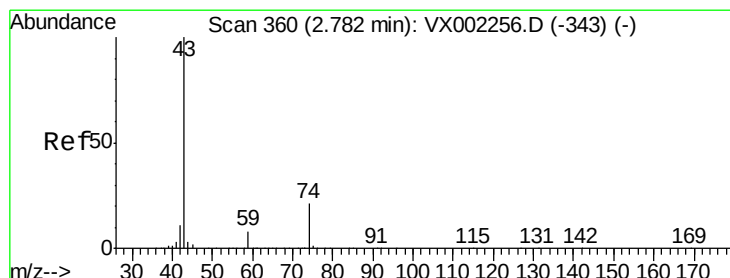
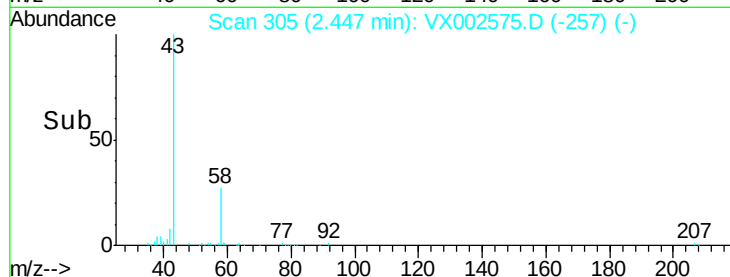
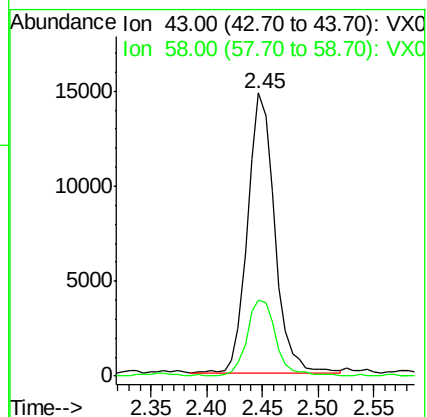
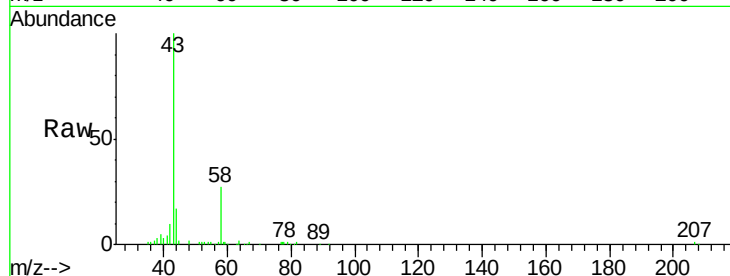
ClientSampleId :

Tot Ion: 43 Resp: 25093

Ion Ratio Lower Upper

43 100

58 26.9 22.1 33.1



#18

Methyl Acetate

Concen: 4.29 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002575.D

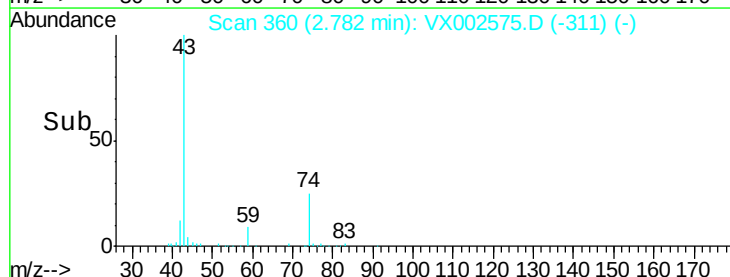
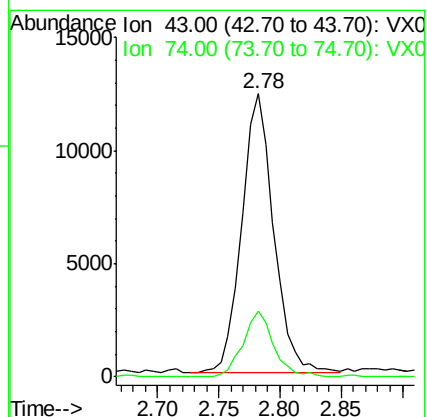
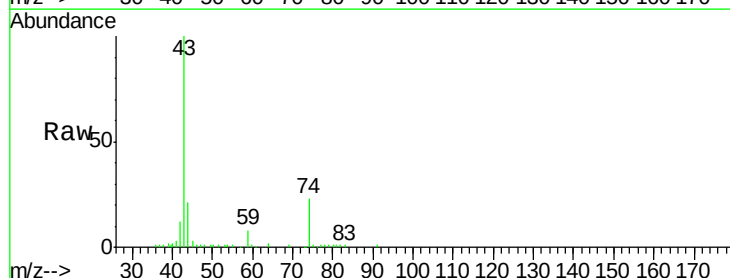
Acq: 15 Jun 2018 02:30

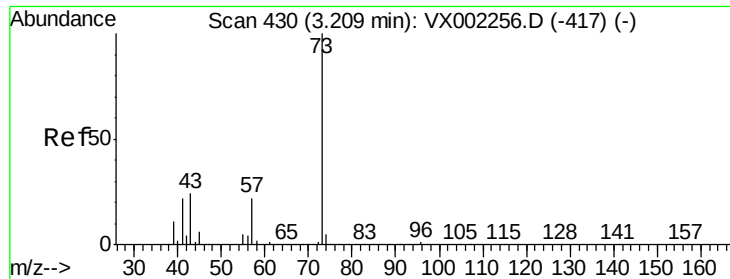
Tgt Ion: 43 Resp: 22422

Ion Ratio Lower Upper

43 100

74 22.5 16.7 25.1



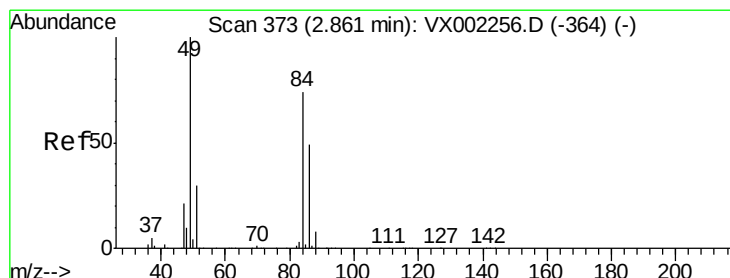
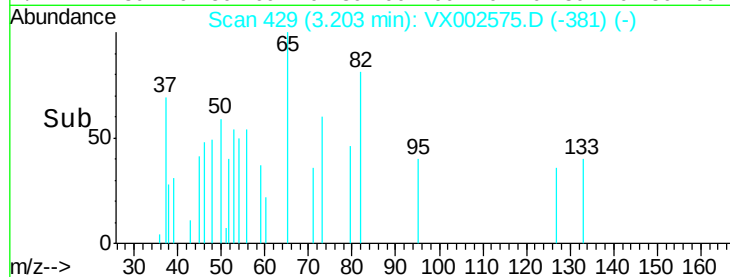
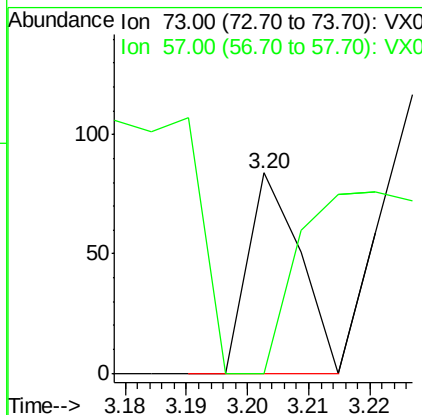
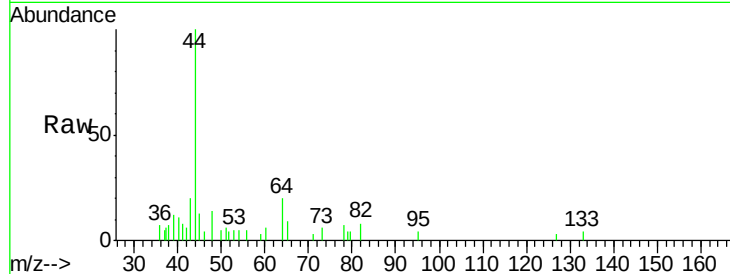


#19

Methyl tert-butyl Ether
 Concen: Below Cal
 RT: 3.20 min Scan# 429
 Delta R.T. -0.01 min
 Lab File: VX002575.D
 Acq: 15 Jun 2018 02:30

Instrument :
 MSVOA_X
 ClientSampled :

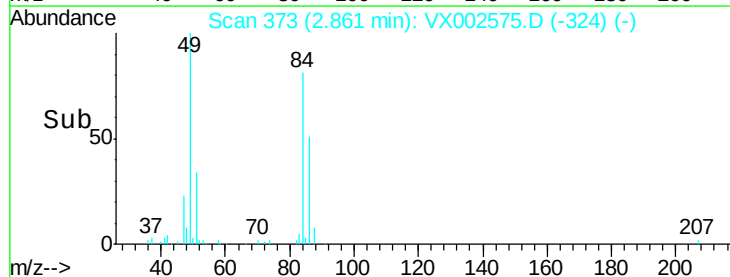
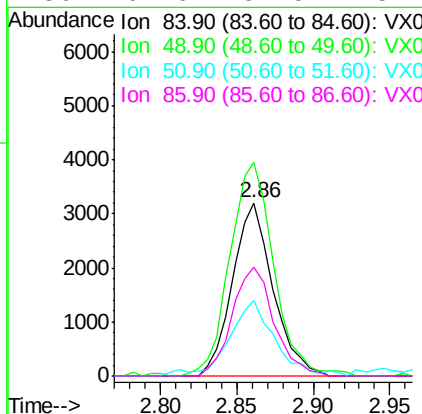
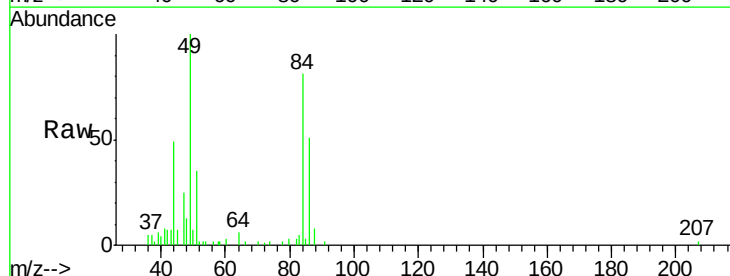
Tot Ion: 73 Resp: 49
 Ion Ratio Lower Upper
 73 100
 57 0.0 17.7 26.5#

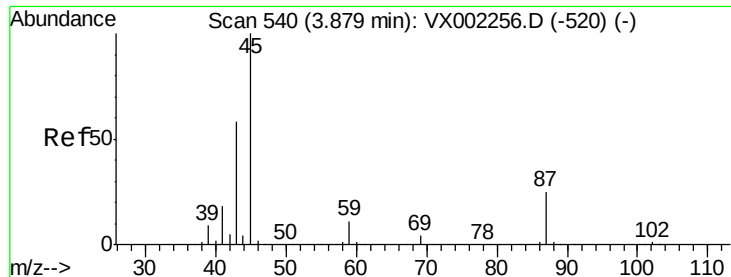


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.86 min Scan# 373
 Delta R.T. 0.00 min
 Lab File: VX002575.D
 Acq: 15 Jun 2018 02:30

Tgt Ion: 84 Resp: 5876
 Ion Ratio Lower Upper
 84 100
 49 121.6 107.8 161.6
 51 41.4 32.8 49.2
 86 62.6 52.5 78.7

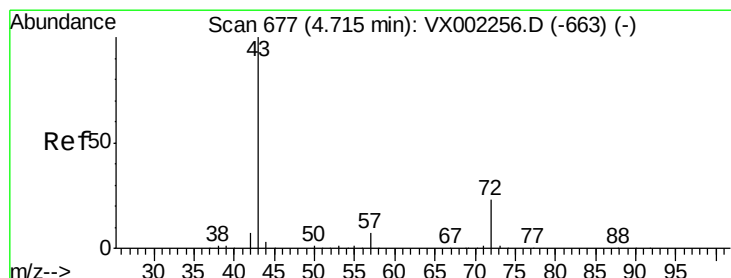
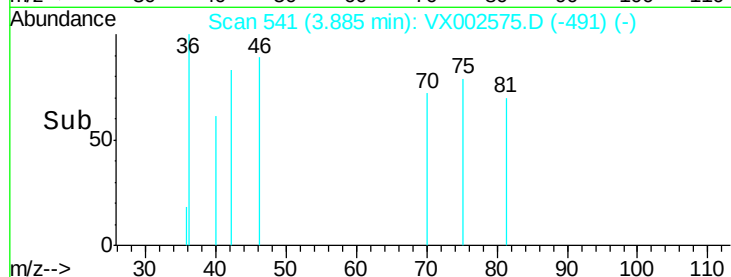
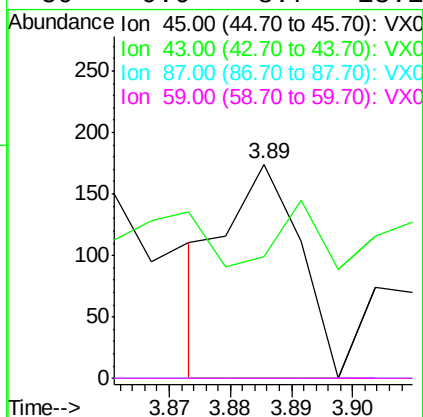
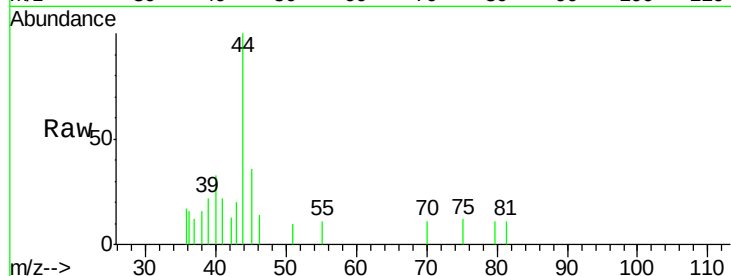




#22
Diisopropyl ether
Concen: Below Cal
RT: 3.89 min Scan# 541
Delta R.T. 0.01 min
Lab File: VX002575.D
Acq: 15 Jun 2018 02:30

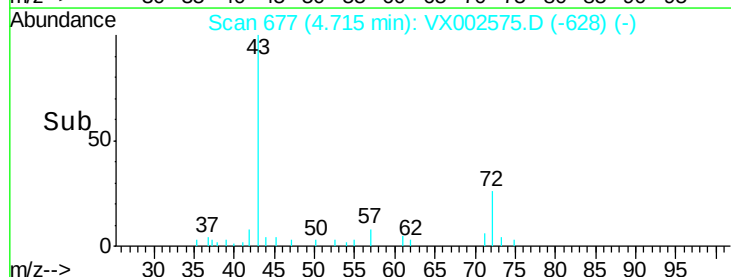
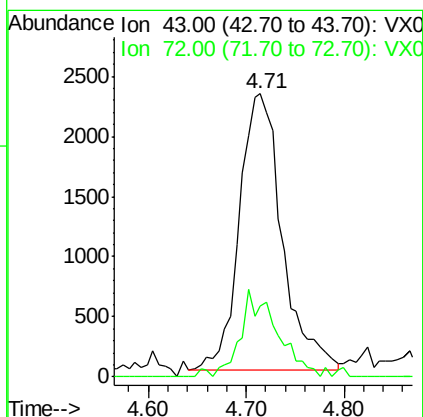
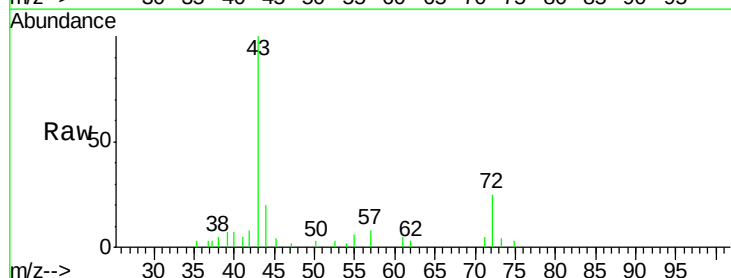
Instrument :
MSVOA_X
ClientSampleId :

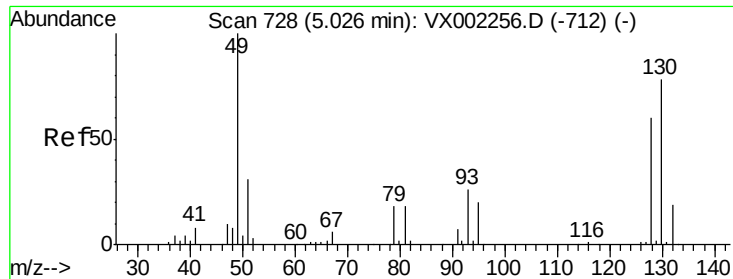
Tot Ion:	45	Resp:	147
Ion	Ratio	Lower	Upper
45	100		
43	5.7	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#



#25
2-Butanone
Concen: 3.08 ug/l
RT: 4.71 min Scan# 677
Delta R.T. -0.00 min
Lab File: VX002575.D
Acq: 15 Jun 2018 02:30

Tgt Ion:	43	Resp:	7000
Ion	Ratio	Lower	Upper
43	100		
72	25.5	18.5	27.7





#28

Bromochloromethane

Concen: Below Cal

RT: 5.09 min Scan# 739

Delta R.T. 0.07 min

Lab File: VX002575.D

Acq: 15 Jun 2018 02:30

Instrument :

MSVOA_X

ClientSampleId :

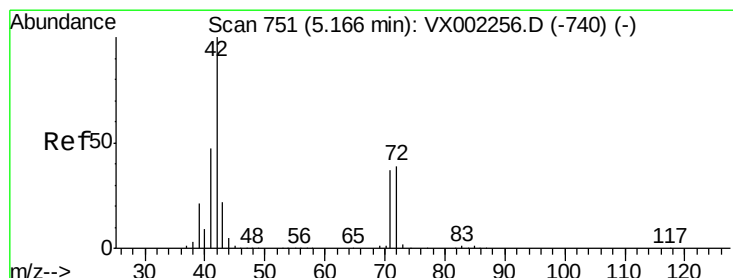
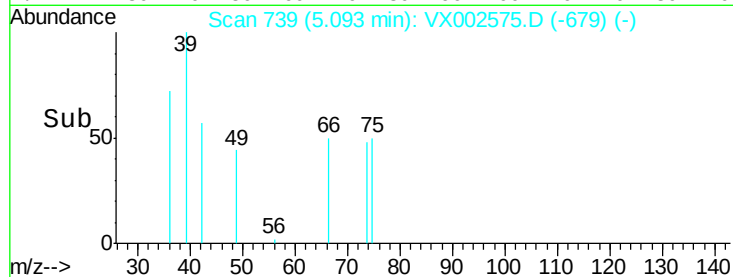
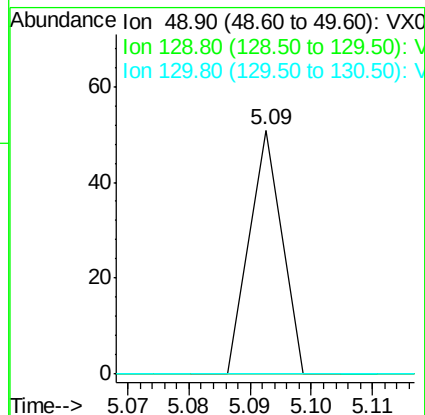
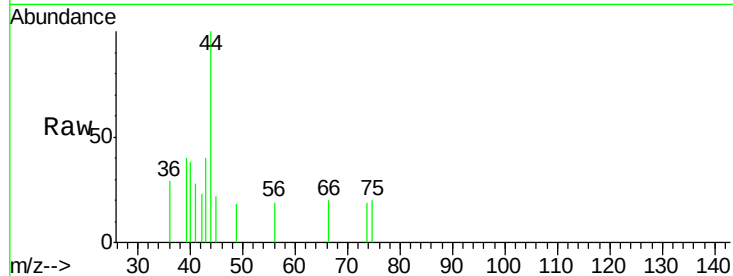
Tot Ion: 49 Resp: 19

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 0.0 61.2 91.8#



#29

Tetrahydrofuran

Concen: 1.01 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.02 min

Lab File: VX002575.D

Acq: 15 Jun 2018 02:30

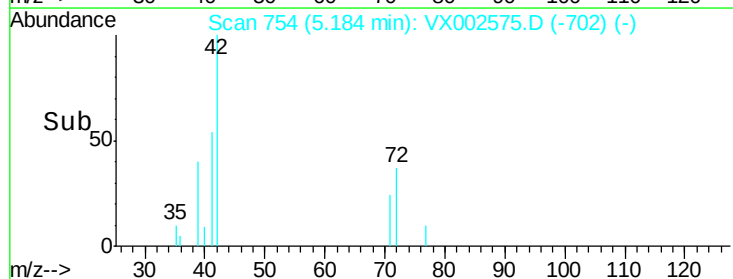
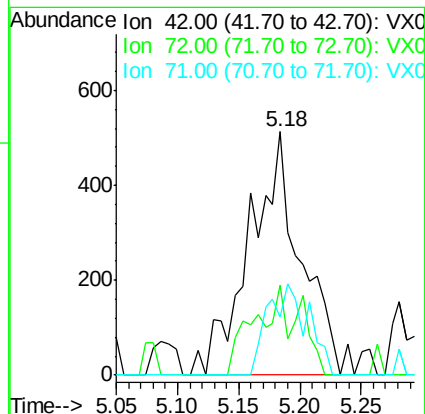
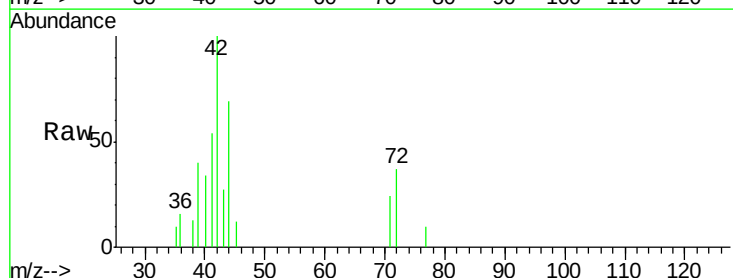
Tgt Ion: 42 Resp: 1483

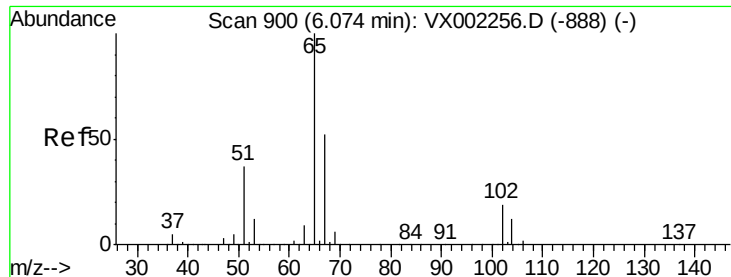
Ion Ratio Lower Upper

42 100

72 22.3 32.0 48.0#

71 29.9 30.1 45.1#

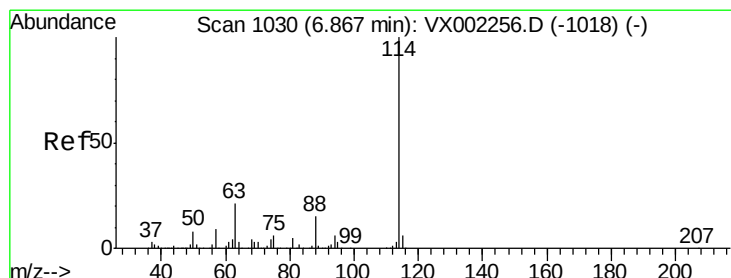
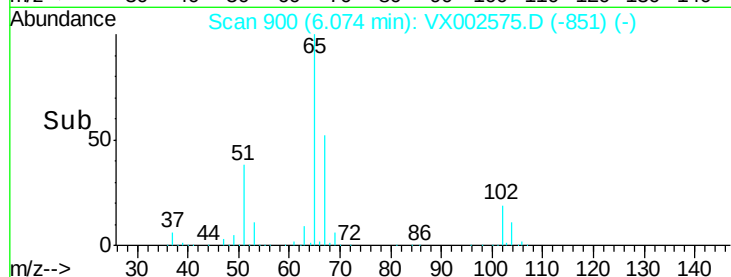
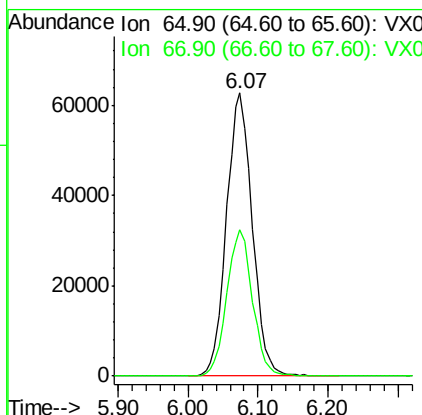
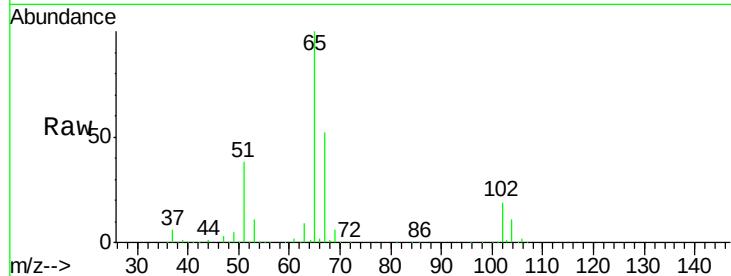




#33
 1,2-Dichloroethane-d4
 Concen: 48.46 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002575.D
 Acq: 15 Jun 2018 02:30

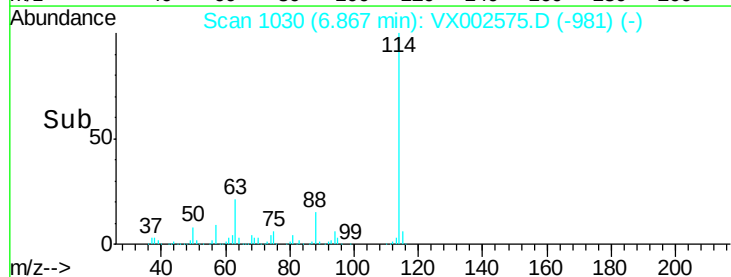
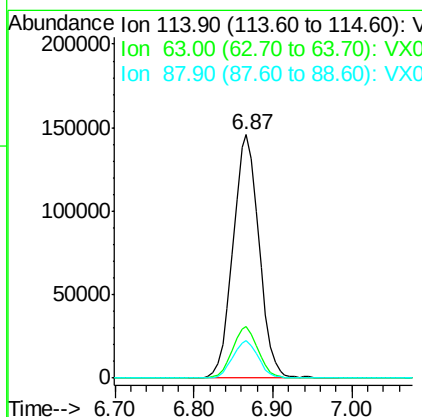
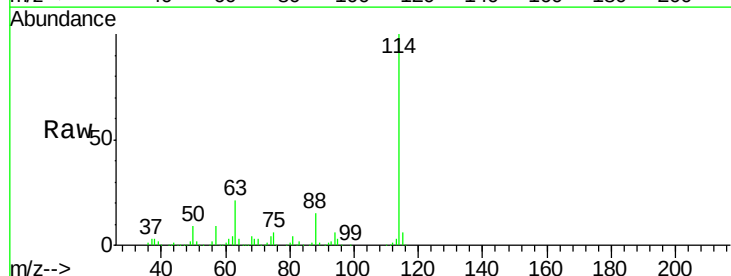
Instrument :
 MSVOA_X
 ClientSampleId :

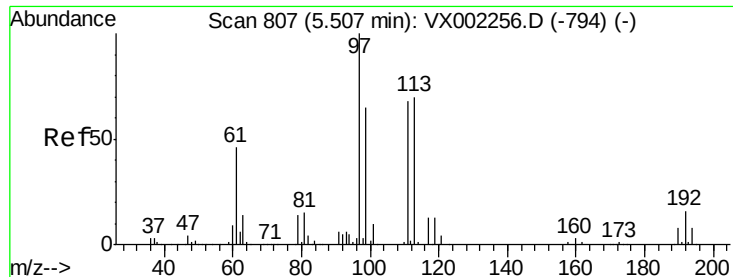
Tot Ion: 65 Resp: 160795
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002575.D
 Acq: 15 Jun 2018 02:30

Tgt Ion: 114 Resp: 336024
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 41.4
 88 15.5 0.0 30.0

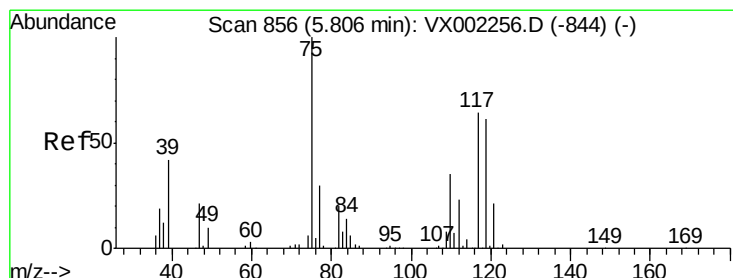
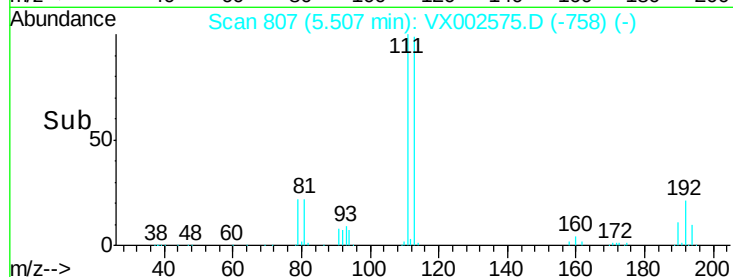
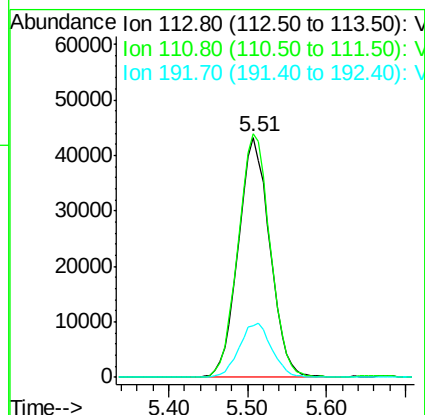
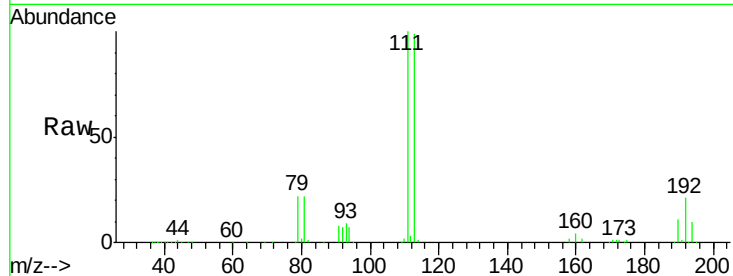




#35
Dibromofluoromethane
Concen: 45.66 ug/l
RT: 5.51 min Scan# 807
Delta R.T. -0.00 min
Lab File: VX002575.D
Acq: 15 Jun 2018 02:30

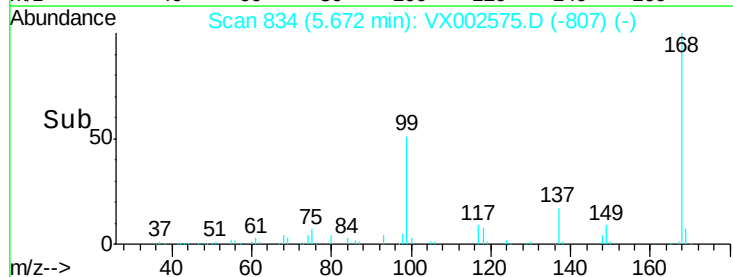
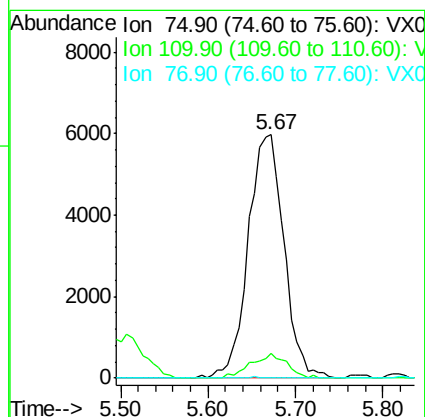
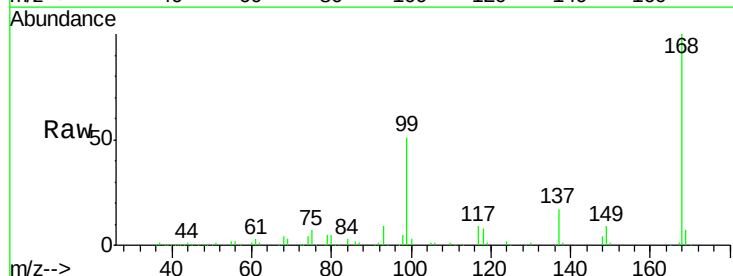
Instrument :
MSVOA_X
ClientSampled :

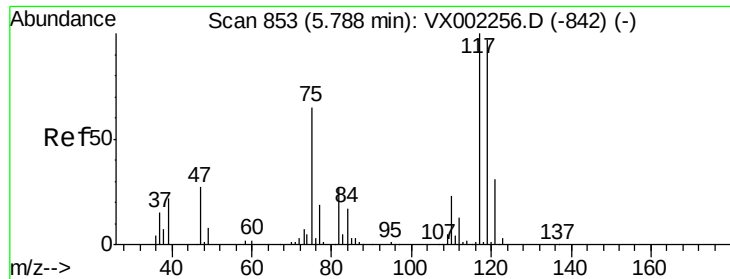
Tot Ion:113 Resp: 120667
Ion Ratio Lower Upper
113 100
111 102.9 81.4 122.0
192 23.1 19.1 28.7



#36
1,1-Dichloropropene
Concen: 4.81 ug/l
RT: 5.67 min Scan# 834
Delta R.T. -0.13 min
Lab File: VX002575.D
Acq: 15 Jun 2018 02:30

Tgt Ion: 75 Resp: 16982
Ion Ratio Lower Upper
75 100
110 10.2 18.1 54.4#
77 0.1 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.88 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002575.D

Acq: 15 Jun 2018 02:30

Instrument :

MSVOA_X

ClientSampleId :

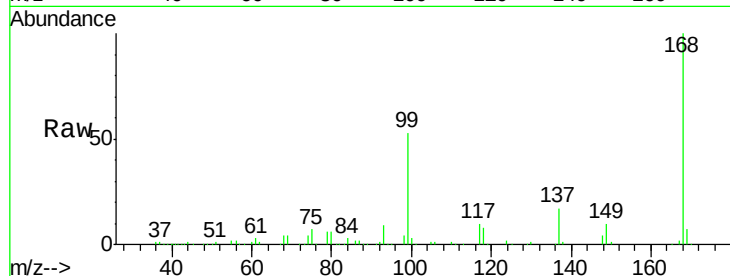
Tot Ion:117 Resp: 21712

Ion Ratio Lower Upper

117 100

119 5.1 77.4 116.0#

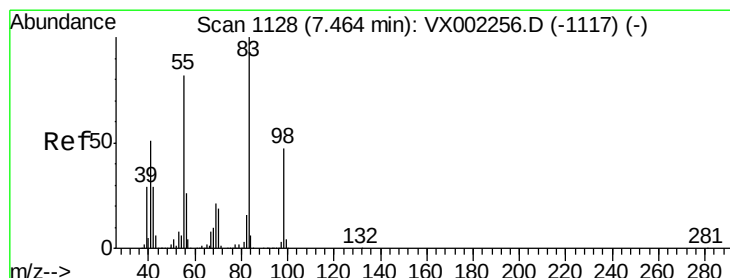
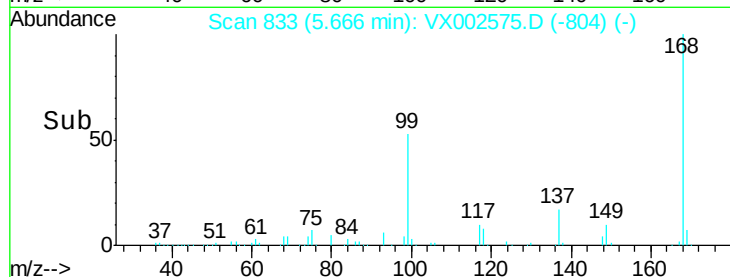
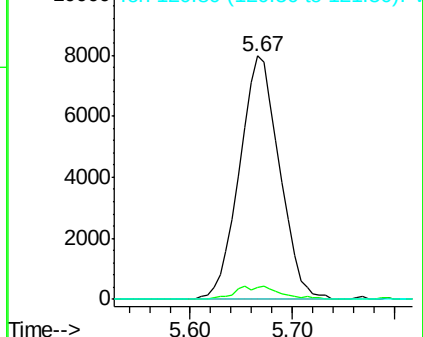
121 0.0 24.4 36.6#



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



#39

Methylcyclohexane

Concen: 0.33 ug/l

RT: 7.46 min Scan# 1128

Delta R.T. 0.00 min

Lab File: VX002575.D

Acq: 15 Jun 2018 02:30

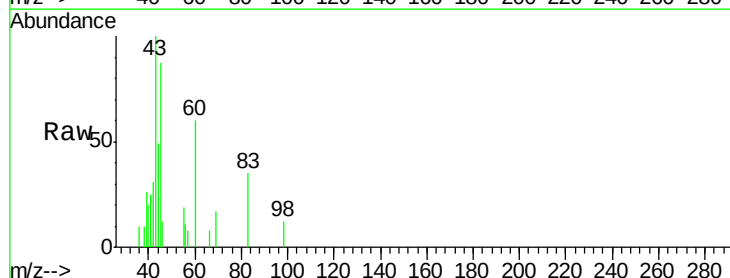
Tgt Ion: 83 Resp: 298

Ion Ratio Lower Upper

83 100

55 54.1 65.4 98.0#

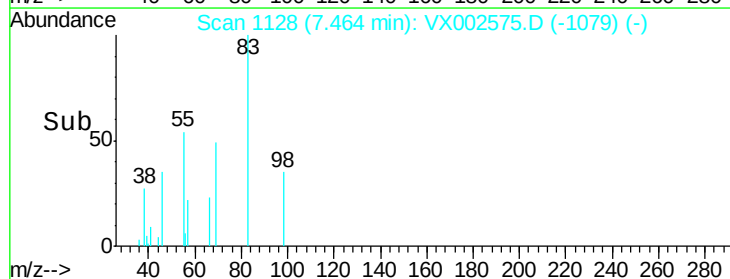
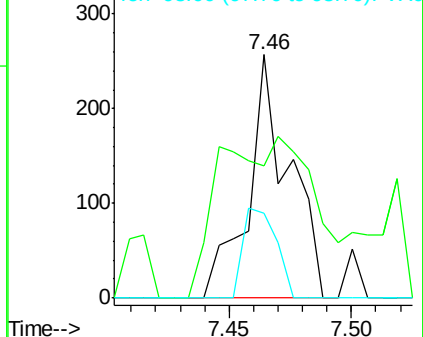
98 35.0 37.4 56.0#

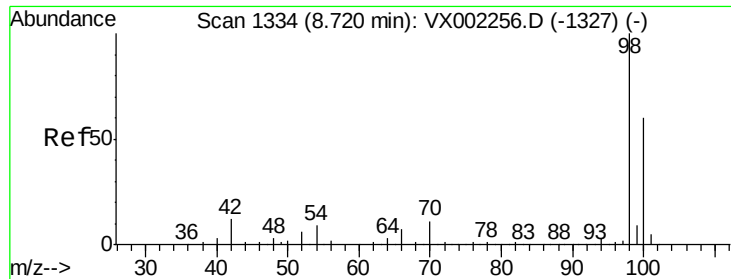


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

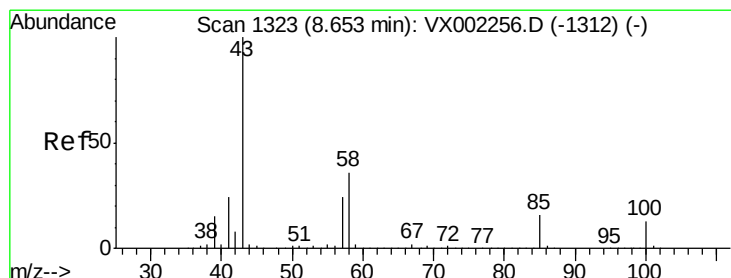
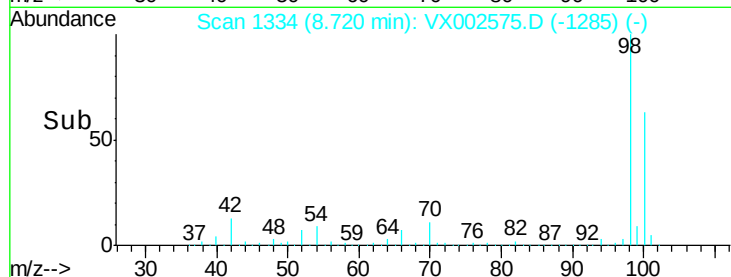
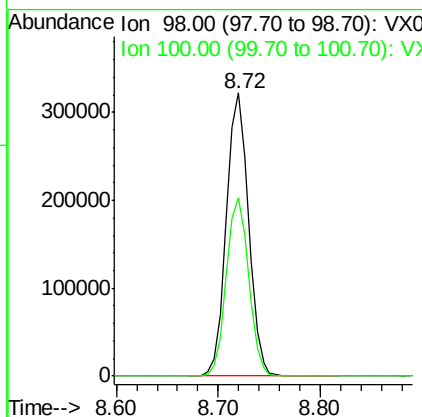
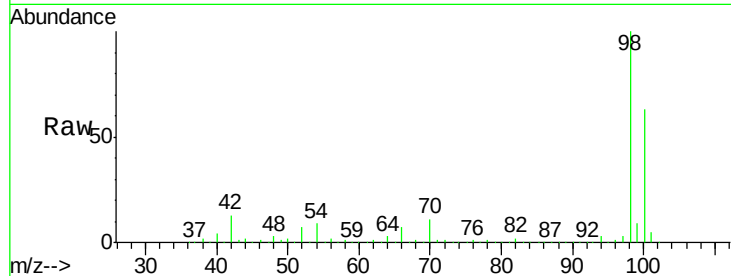




#50
Toluene-d8
Concen: 47.72 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002575.D
Acq: 15 Jun 2018 02:30

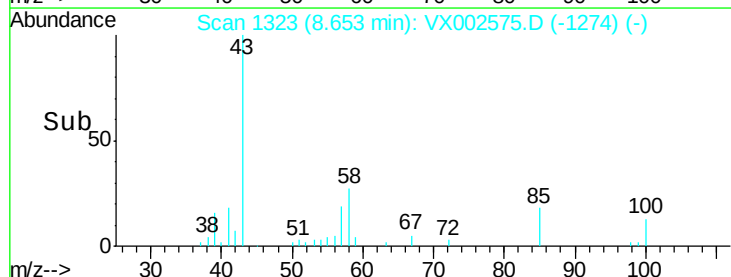
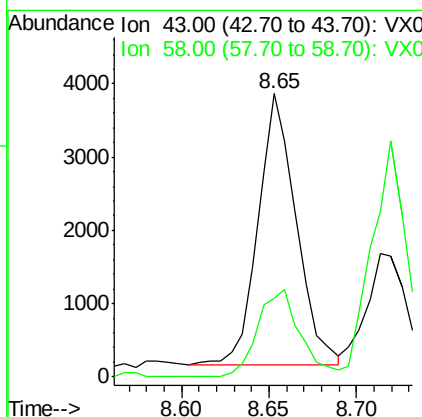
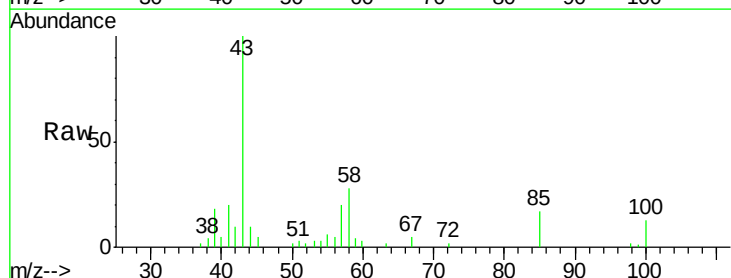
Instrument :
MSVOA_X
ClientSampleId :

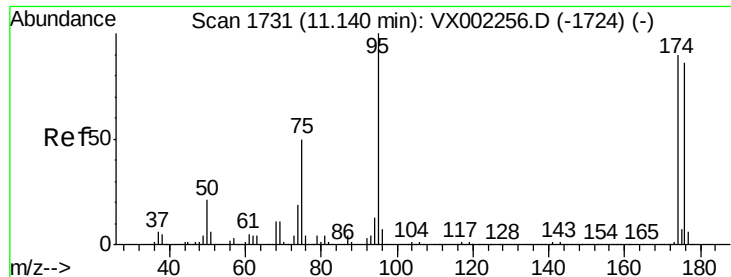
Tot Ion: 98 Resp: 483303
Ion Ratio Lower Upper
98 100
100 63.3 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 1.25 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. -0.00 min
Lab File: VX002575.D
Acq: 15 Jun 2018 02:30

Tgt Ion: 43 Resp: 5623
Ion Ratio Lower Upper
43 100
58 35.9 28.6 42.8

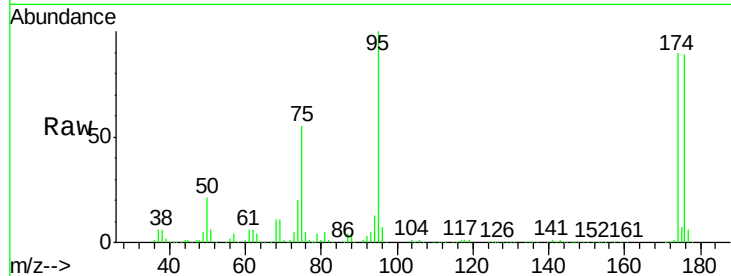




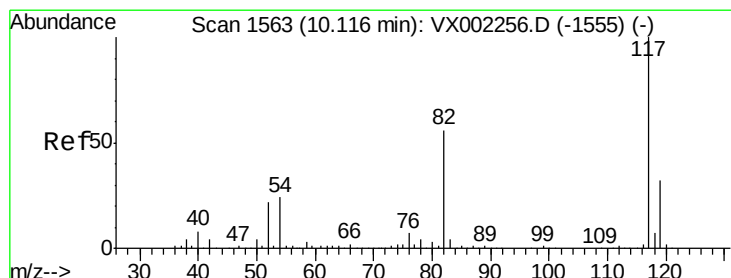
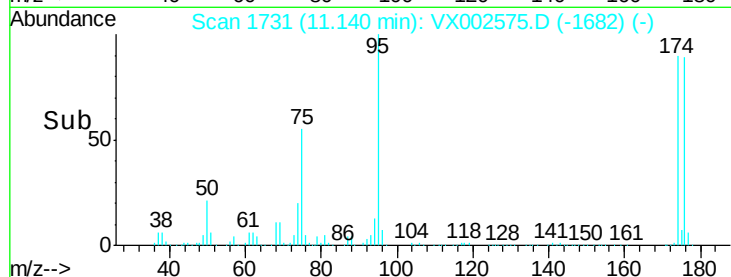
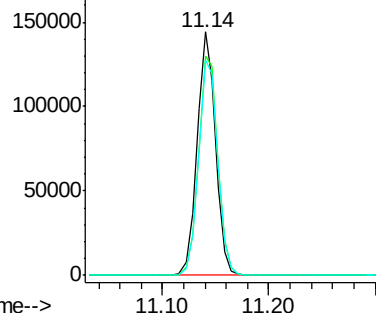
#62
4-Bromofluorobenzene
Concen: 44.57 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002575.D
Acq: 15 Jun 2018 02:30

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 95 Resp: 174069
Ion Ratio Lower Upper
95 100
174 94.2 0.0 187.4
176 92.7 0.0 181.0

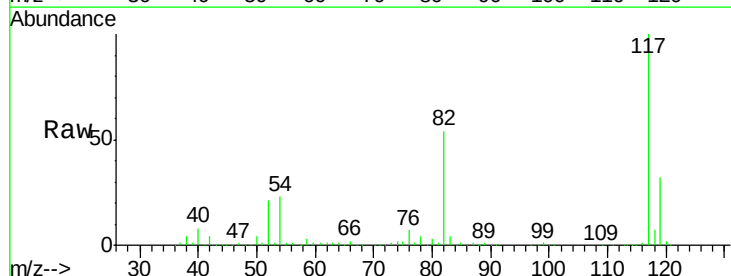


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

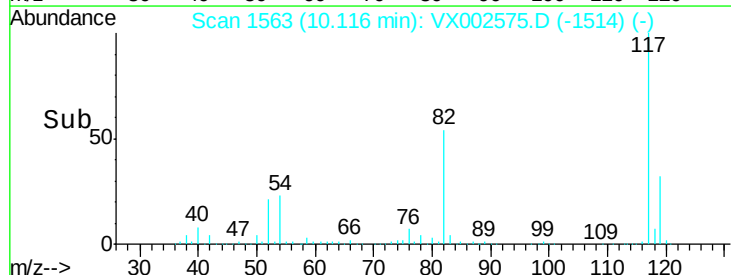
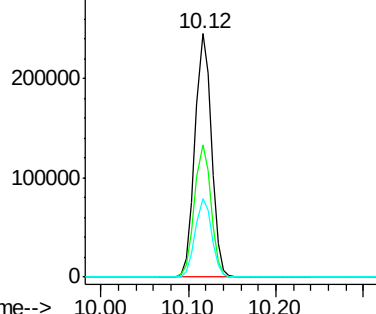


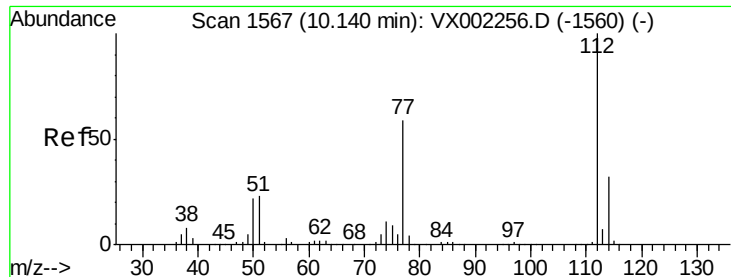
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002575.D
Acq: 15 Jun 2018 02:30

Tgt Ion: 117 Resp: 319280
Ion Ratio Lower Upper
117 100
82 54.5 45.0 67.4
119 32.0 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





#65

Chlorobenzene

Concen: 0.33 ug/l

RT: 10.15 min Scan# 1568

Delta R.T. 0.01 min

Lab File: VX002575.D

Acq: 15 Jun 2018 02:30

Instrument :

MSVOA_X

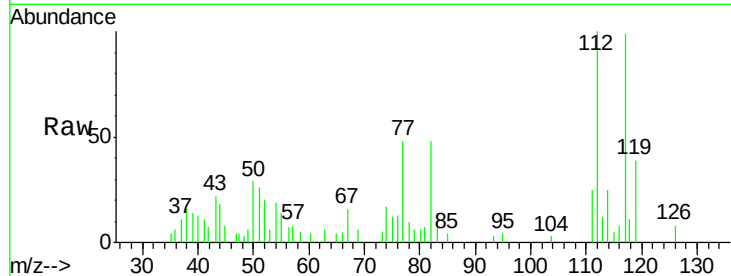
ClientSampleId :

Tot Ion:112 Resp: 2633

Ion Ratio Lower Upper

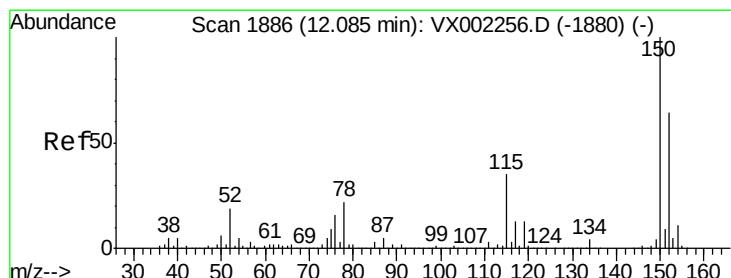
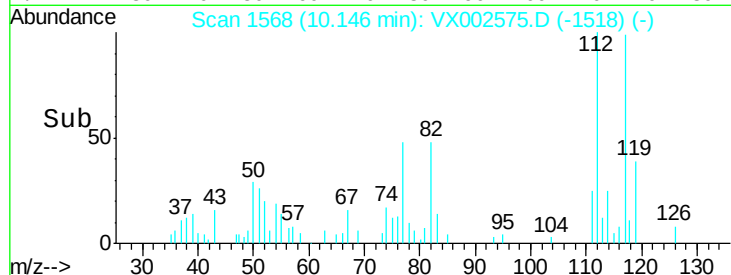
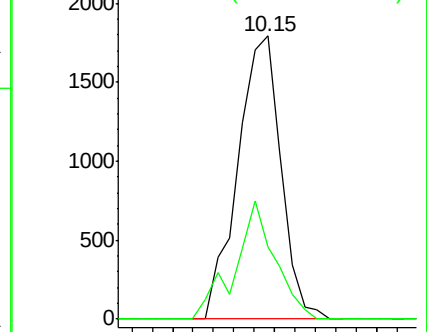
112 100

114 25.5 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): 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: VX002575.D

Acq: 15 Jun 2018 02:30

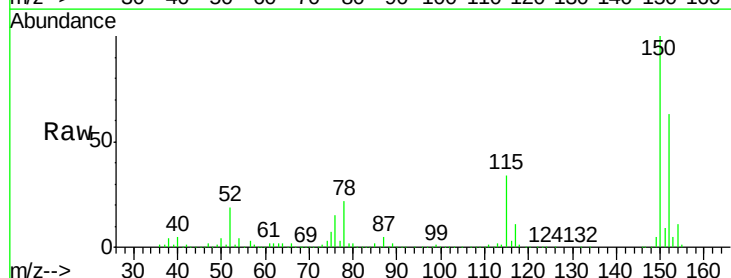
Tgt Ion:152 Resp: 183193

Ion Ratio Lower Upper

152 100

115 55.4 40.1 120.2

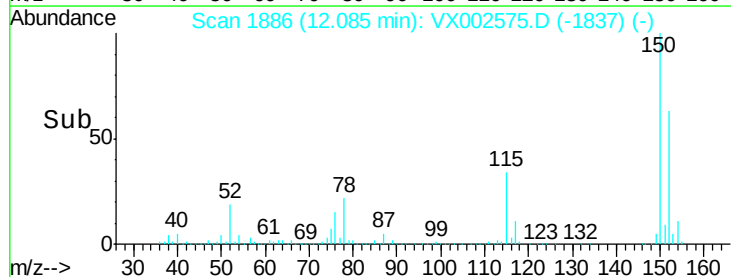
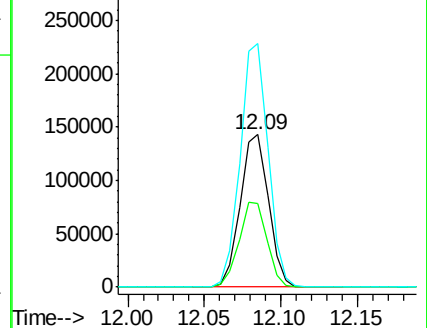
150 157.5 0.0 347.2

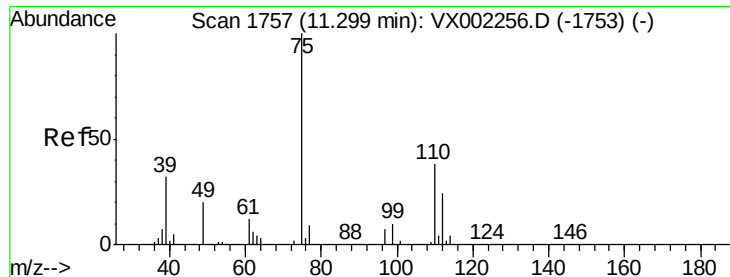


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.62 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002575.D

Acq: 15 Jun 2018 02:30

Instrument :

MSVOA_X

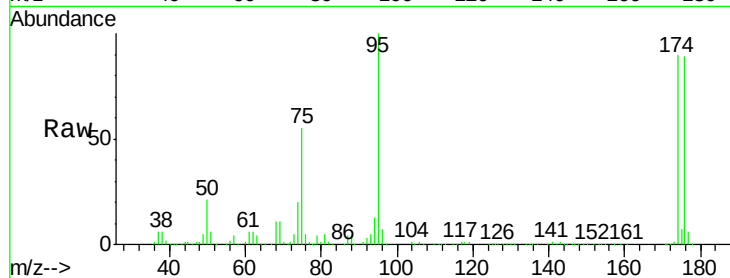
ClientSampled :

Tot Ion: 75 Resp: 94929

Ion Ratio Lower Upper

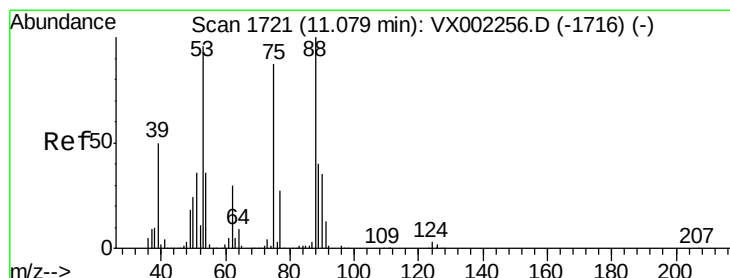
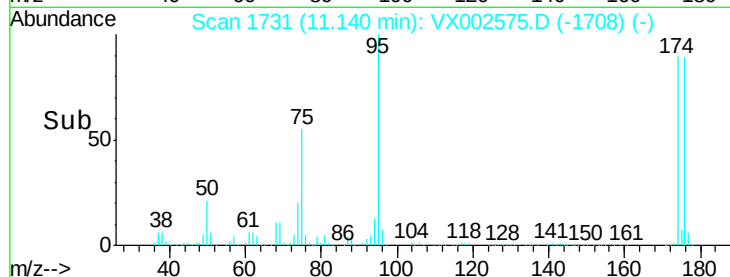
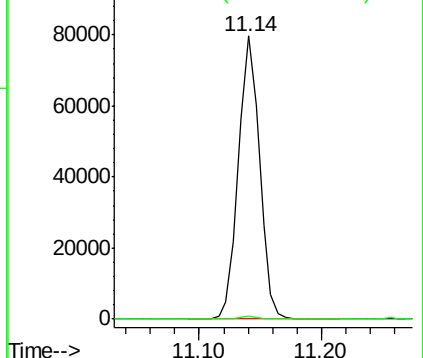
75 100

77 1.0 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: 82.78 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002575.D

Acq: 15 Jun 2018 02:30

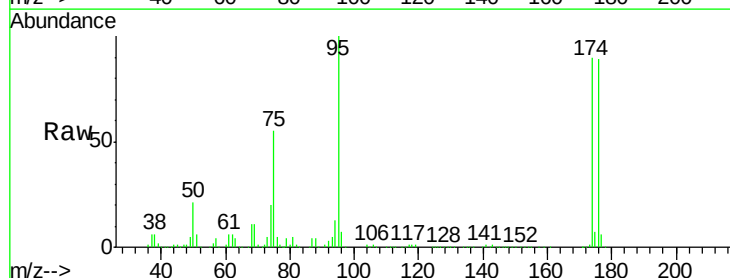
Tgt Ion: 75 Resp: 94929

Ion Ratio Lower Upper

75 100

53 0.1 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

