

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060518\
 Data File : VX002314.D
 Acq On : 05 Jun 2018 19:04
 Operator : JC/MD
 Sample : J3268-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 06 04:33:47 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	220466	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	319907	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	291794	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	160614	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	153127	48.46	ug/l	0.00
Spiked Amount			Recovery	=	96.92%	
35) Dibromofluoromethane	5.51	113	111527	44.33	ug/l	0.00
Spiked Amount			Recovery	=	88.66%	
50) Toluene-d8	8.72	98	458399	47.54	ug/l	0.00
Spiked Amount			Recovery	=	95.08%	
62) 4-Bromofluorobenzene	11.14	95	159674	42.94	ug/l	0.00
Spiked Amount			Recovery	=	85.88%	

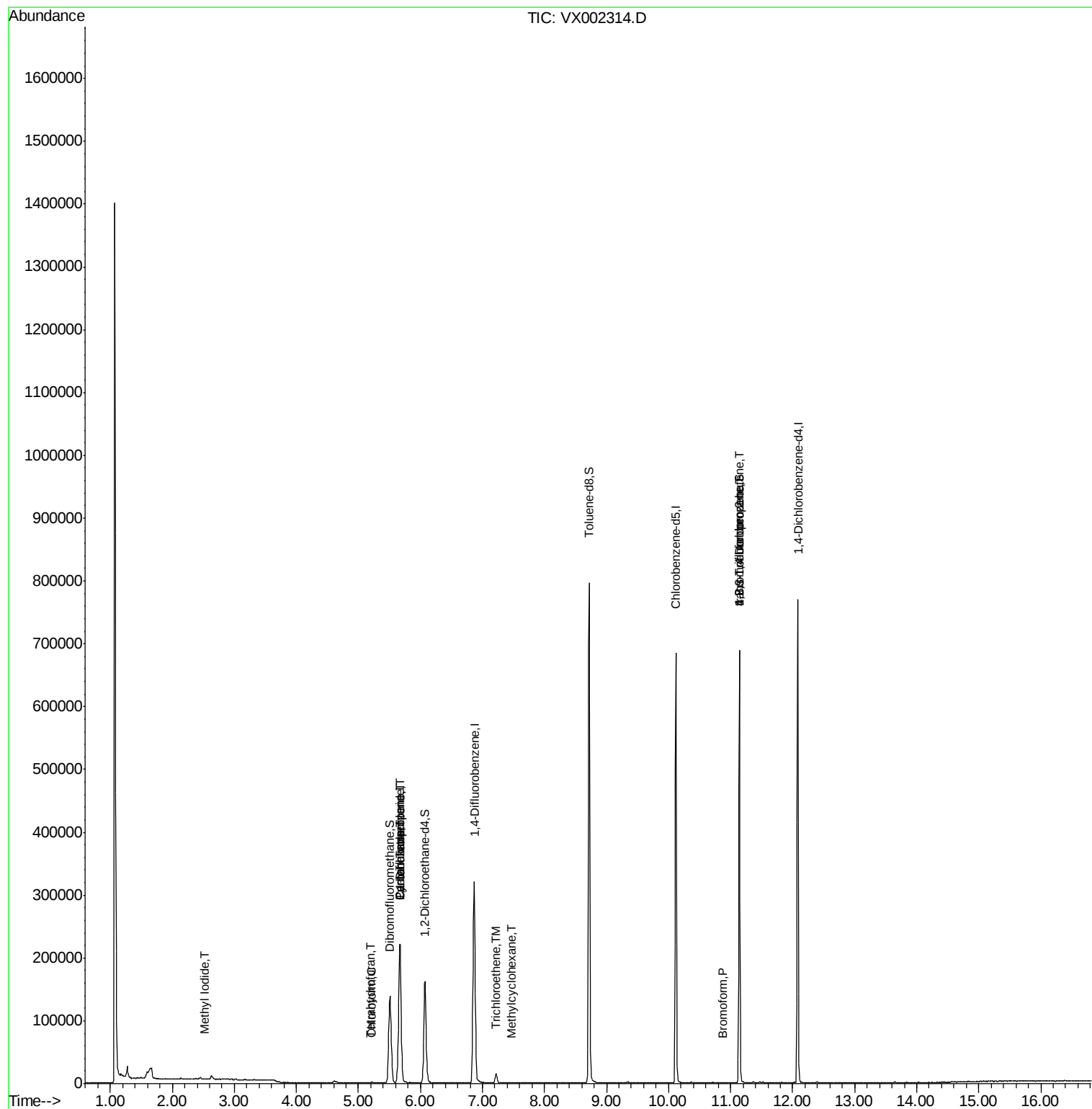
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	605	Below Cal		99
5) Bromomethane	1.64	94	1530	Below Cal		98
8) Diethyl Ether	2.18	74	87	Below Cal		93
10) Methyl Iodide	2.51	142	984	0.29 ug/l	#	86
11) Tert butyl alcohol	3.10	59	19	Below Cal	#	1
13) Acrolein	2.30	56	197	Below Cal	#	14
15) Acrylonitrile	3.14	53	124	Below Cal	#	1
16) Acetone	2.45	43	3325	Below Cal		93
18) Methyl Acetate	2.80	43	340	Below Cal	#	84
19) Methyl tert-butyl Ether	3.21	73	149	Below Cal	#	1
20) Methylene Chloride	2.86	84	641	Below Cal	#	77
22) Diisopropyl ether	3.87	45	159	Below Cal	#	50
28) Bromochloromethane	5.01	49	19	Below Cal	#	13
29) Tetrahydrofuran	5.18	42	354	0.25 ug/l	#	36
30) Chloroform	5.22	83	1288	0.27 ug/l		100
31) Cyclohexane	5.67	56	4695	1.18 ug/l	#	12
36) 1,1-Dichloropropene	5.67	75	15902	4.73 ug/l	#	50
38) Carbon Tetrachloride	5.67	117	21072	5.99 ug/l	#	16
39) Methylcyclohexane	7.46	83	173	0.30 ug/l	#	19
44) Trichloroethene	7.22	130	6023	2.10 ug/l		96
71) Bromoform	10.86	173	56	3.48 ug/l	#	28
76) 1,2,3-Trichloropropane	11.14	75	85724	24.32 ug/l	#	33
81) trans-1,4-Dichloro-2-buten	11.14	75	85724	85.26 ug/l	#	6

(#) = 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. -0.01 min

Lab File: VX002314.D

Acq: 05 Jun 2018 19:04

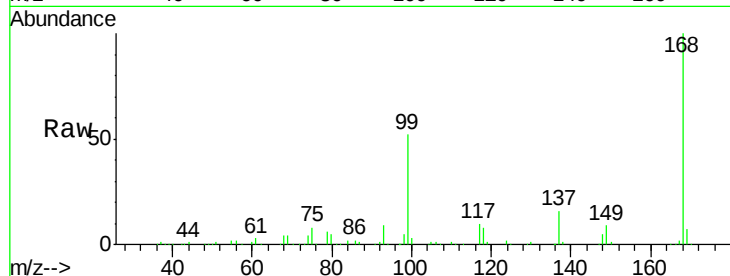
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 220466

Ion Ratio Lower Upper

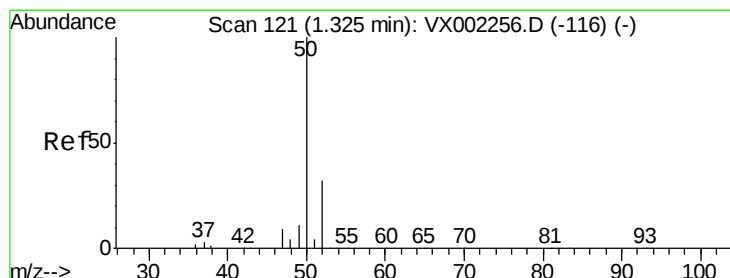
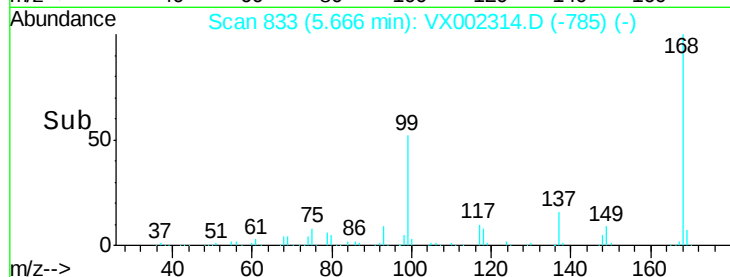
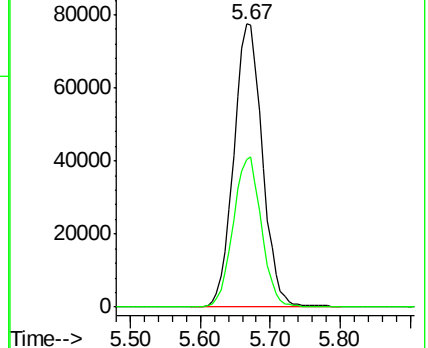
168 100

99 52.1 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: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002314.D

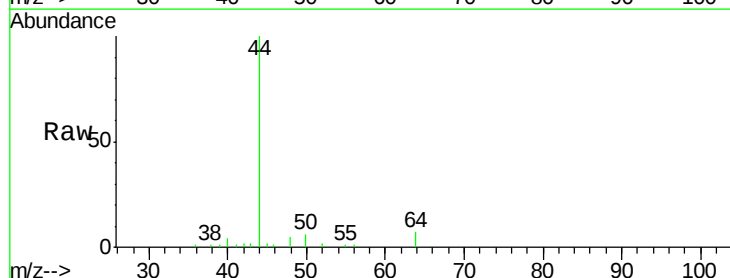
Acq: 05 Jun 2018 19:04

Tgt Ion: 50 Resp: 605

Ion Ratio Lower Upper

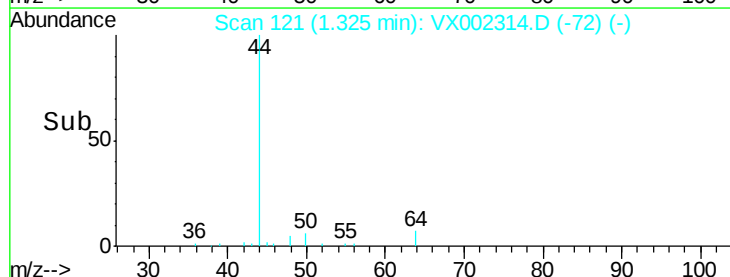
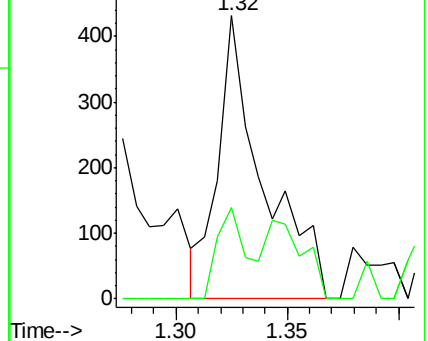
50 100

52 32.4 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: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX002314.D

Acq: 05 Jun 2018 19:04

Instrument :

MSVOA_X

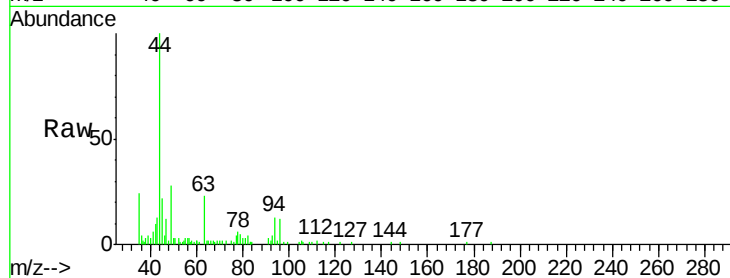
ClientSampled :

Tot Ion: 94 Resp: 1530

Ion Ratio Lower Upper

94 100

96 95.1 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

800

600

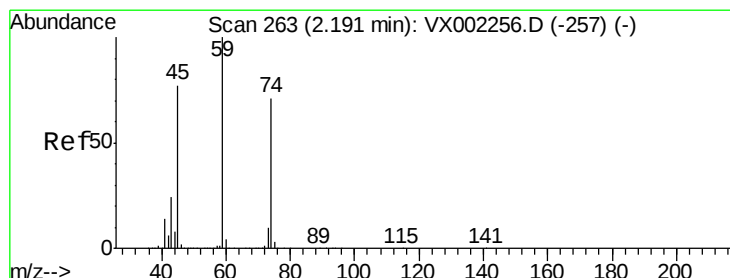
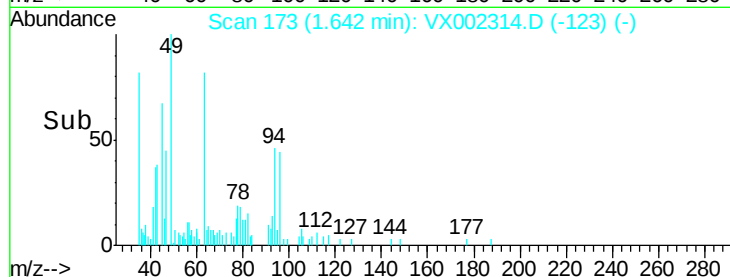
400

200

0

1.60 1.65 1.70

Time-->



#8

Diethyl Ether

Concen: Below Cal

RT: 2.18 min Scan# 261

Delta R.T. -0.01 min

Lab File: VX002314.D

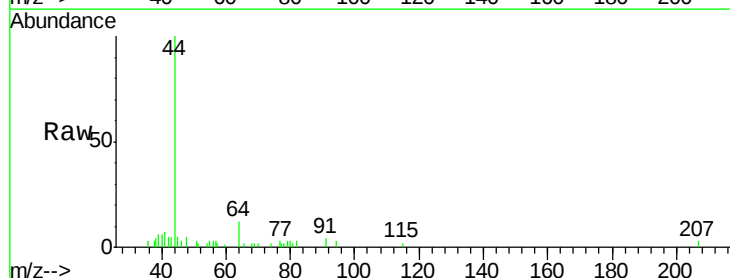
Acq: 05 Jun 2018 19:04

Tgt Ion: 74 Resp: 87

Ion Ratio Lower Upper

74 100

45 113.8 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

500

400

300

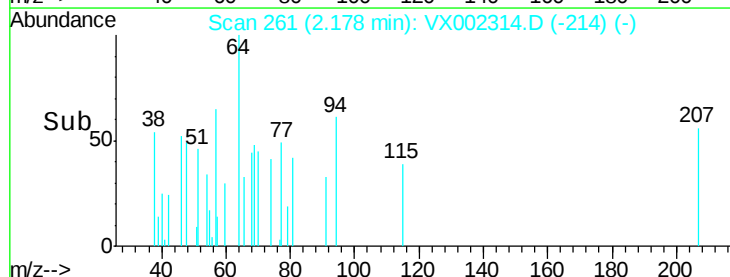
200

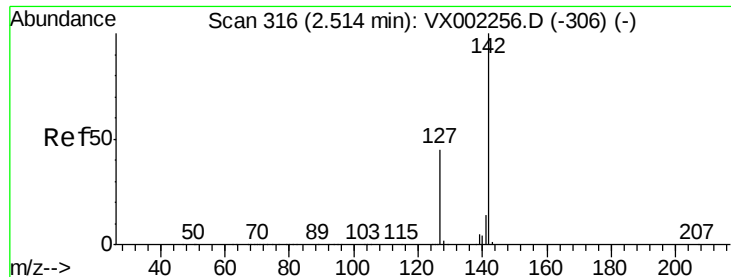
100

0

2.14 2.16 2.18 2.20

Time-->

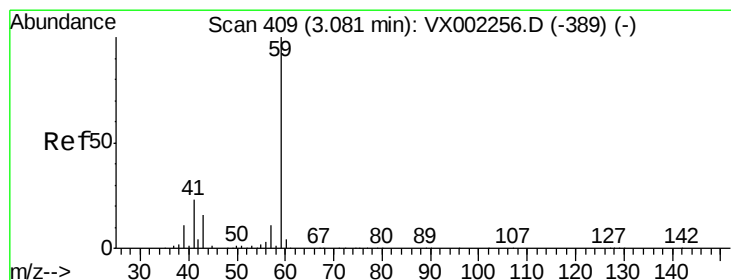
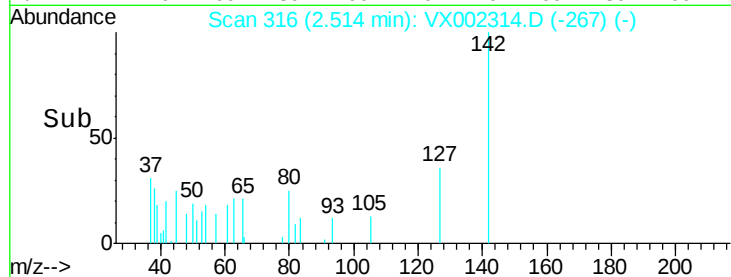
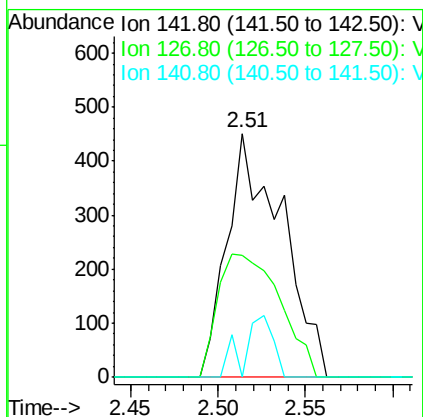
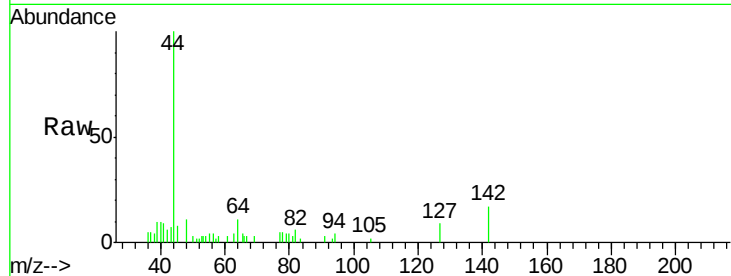




#10
Methvl Iodide
Concen: 0.29 ua/l
RT: 2.51 min Scan# 316
Delta R.T. -0.00 min
Lab File: VX002314.D
Acq: 05 Jun 2018 19:04

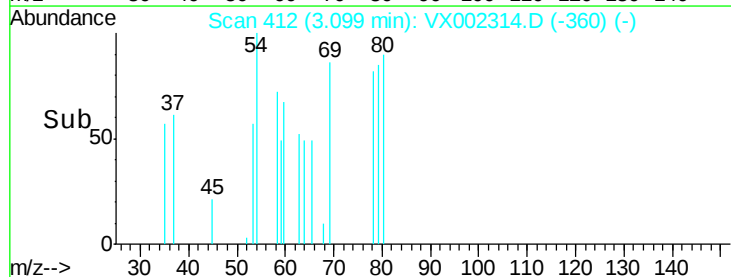
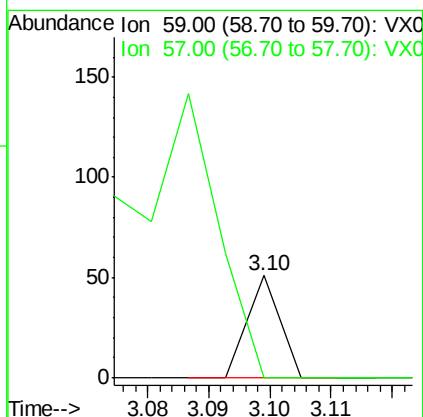
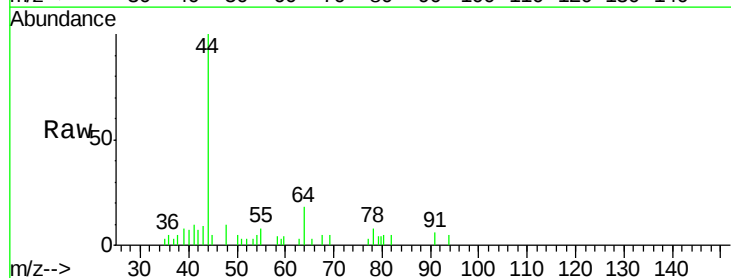
Instrument :
MSVOA_X
ClientSampled :

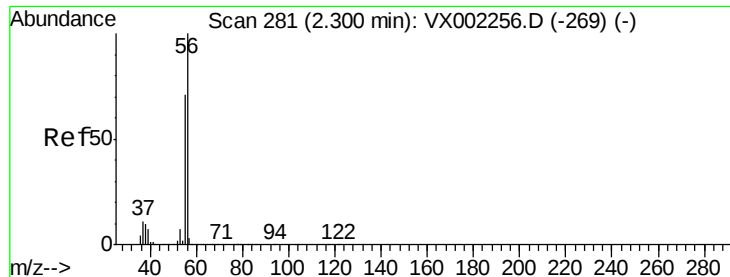
Tot Ion:142 Resp: 984
Ion Ratio Lower Upper
142 100
127 57.1 36.6 55.0#
141 13.4 11.3 16.9



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.10 min Scan# 412
Delta R.T. 0.02 min
Lab File: VX002314.D
Acq: 05 Jun 2018 19:04

Tgt Ion: 59 Resp: 19
Ion Ratio Lower Upper
59 100
57 868.4 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 281

Delta R.T. 0.00 min

Lab File: VX002314.D

Acq: 05 Jun 2018 19:04

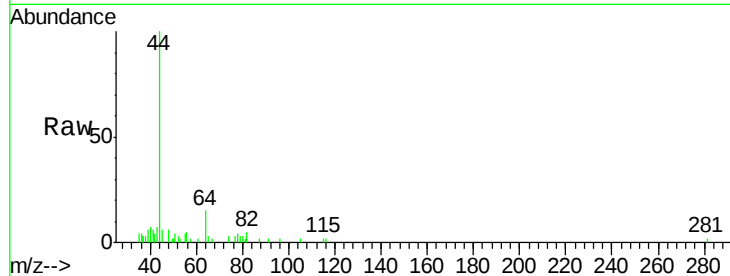
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 197

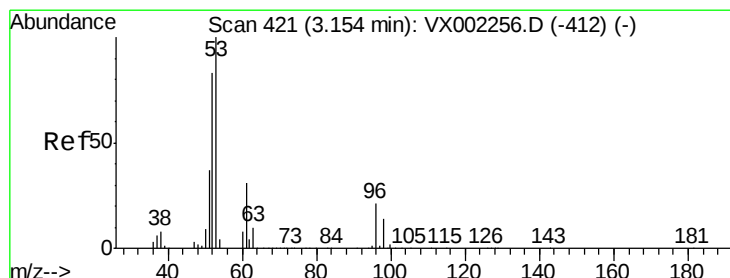
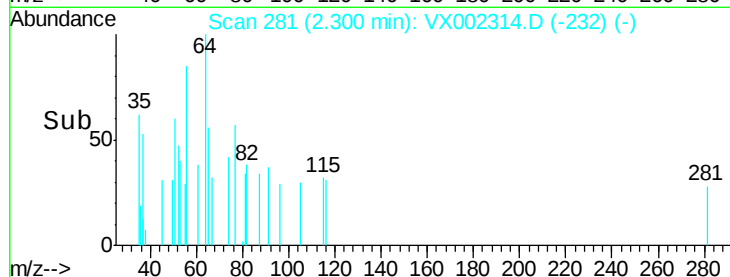
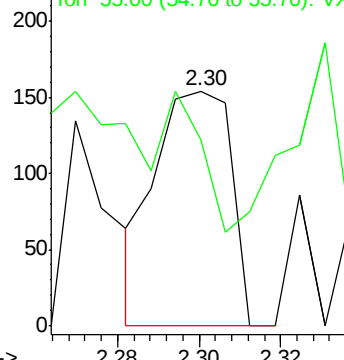
Ion Ratio Lower Upper

56 100

55 0.0 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: Below Cal

RT: 3.14 min Scan# 419

Delta R.T. -0.01 min

Lab File: VX002314.D

Acq: 05 Jun 2018 19:04

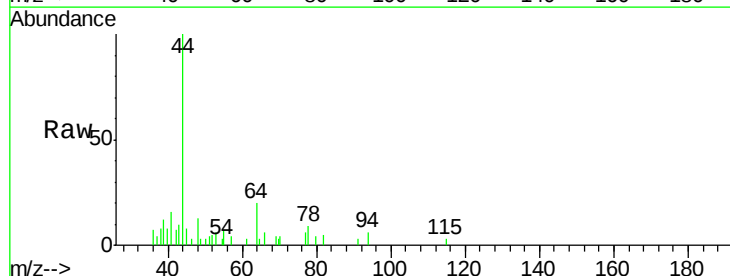
Tgt Ion: 53 Resp: 124

Ion Ratio Lower Upper

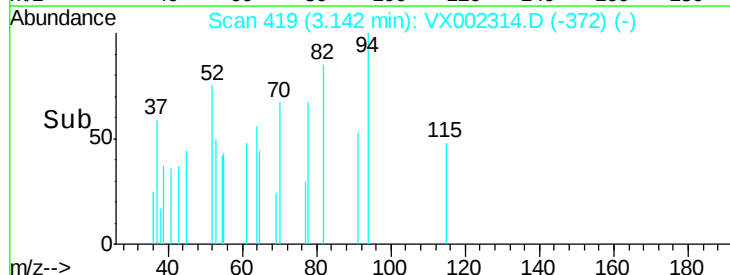
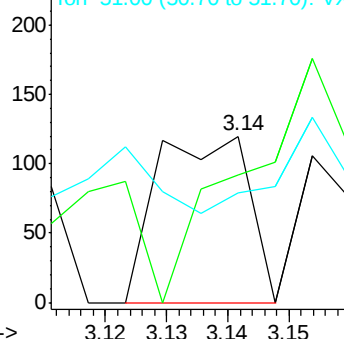
53 100

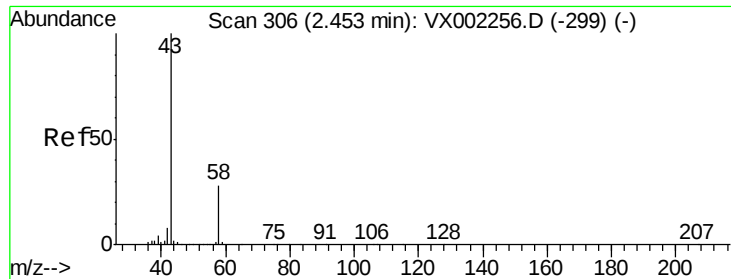
52 249.2 66.7 100.1#

51 103.2 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: Below Cal

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002314.D

Acq: 05 Jun 2018 19:04

Instrument :

MSVOA_X

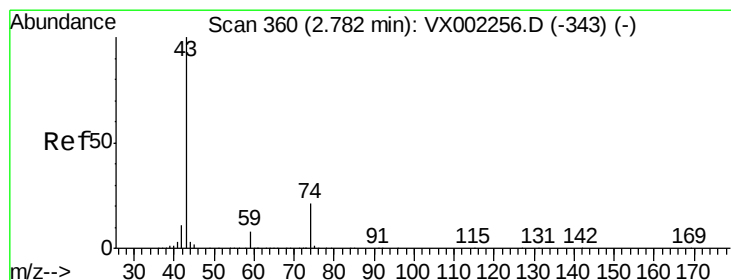
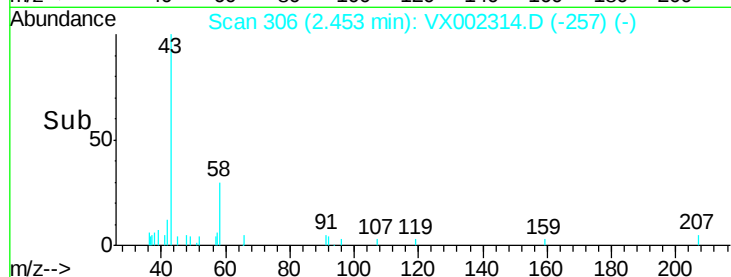
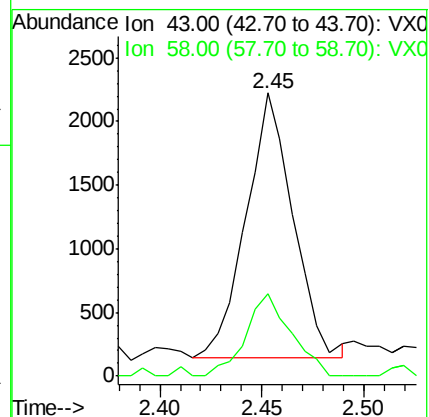
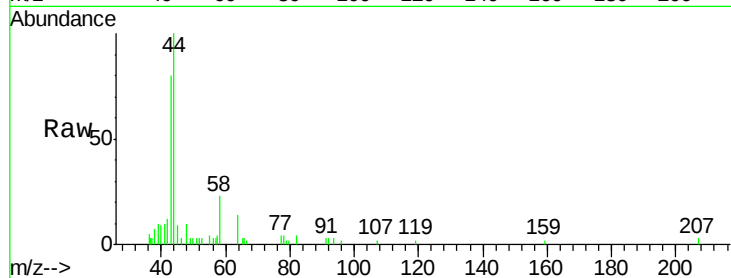
ClientSampleId :

Tot Ion: 43 Resp: 3325

Ion Ratio Lower Upper

43 100

58 31.2 22.1 33.1



#18

Methyl Acetate

Concen: Below Cal

RT: 2.80 min Scan# 363

Delta R.T. 0.02 min

Lab File: VX002314.D

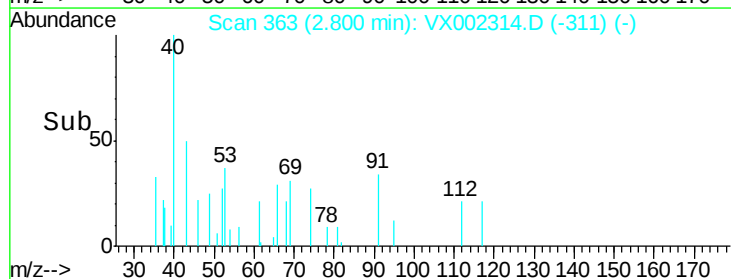
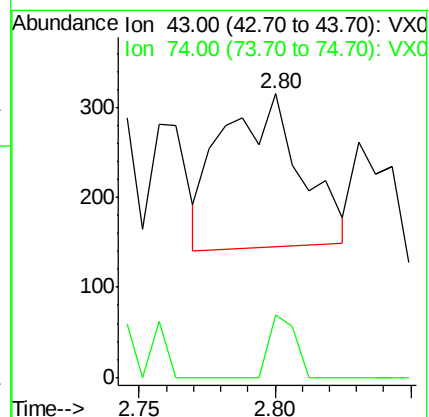
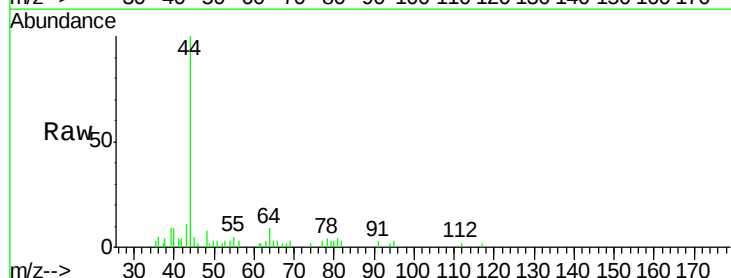
Acq: 05 Jun 2018 19:04

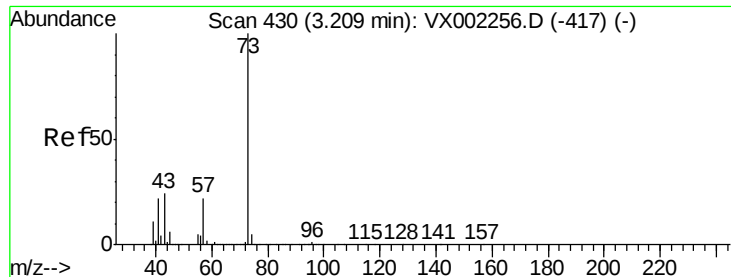
Tgt Ion: 43 Resp: 340

Ion Ratio Lower Upper

43 100

74 13.5 16.7 25.1#



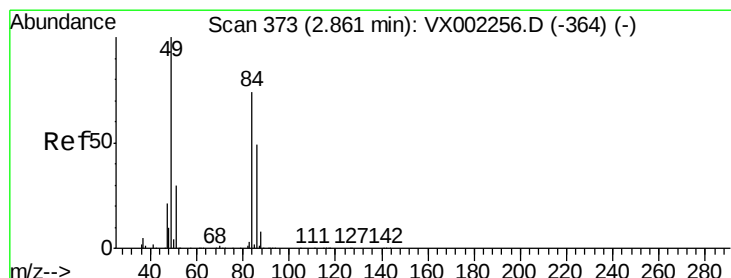
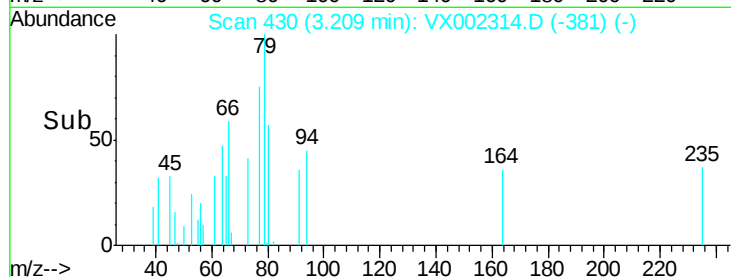
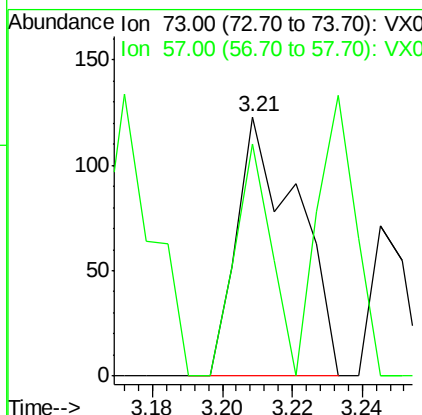
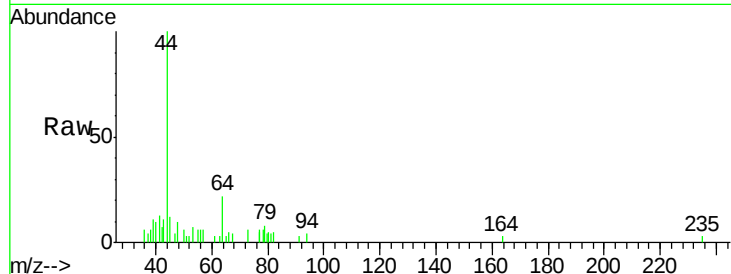


#19

Methyl tert-butyl Ether
 Concen: Below Cal
 RT: 3.21 min Scan# 430
 Delta R.T. 0.00 min
 Lab File: VX002314.D
 Acq: 05 Jun 2018 19:04

Instrument :
 MSVOA_X
 ClientSampled :

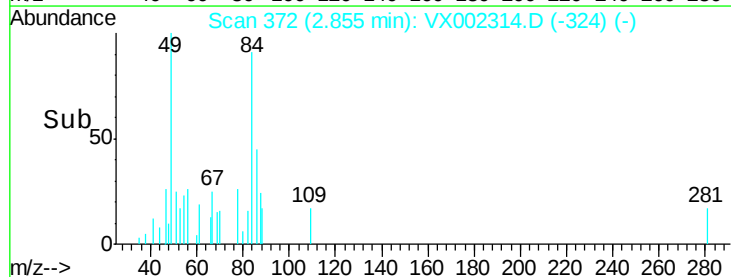
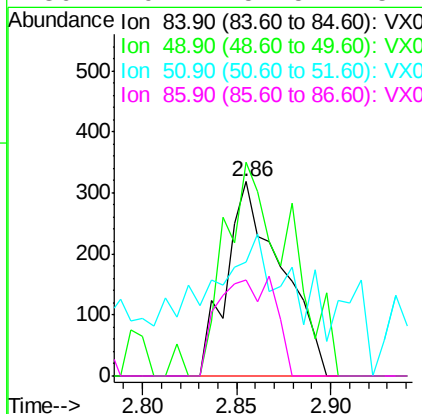
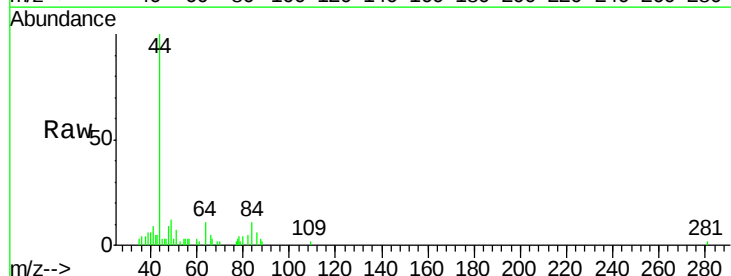
Tot Ion: 73 Resp: 149
 Ion Ratio Lower Upper
 73 100
 57 89.4 17.7 26.5#

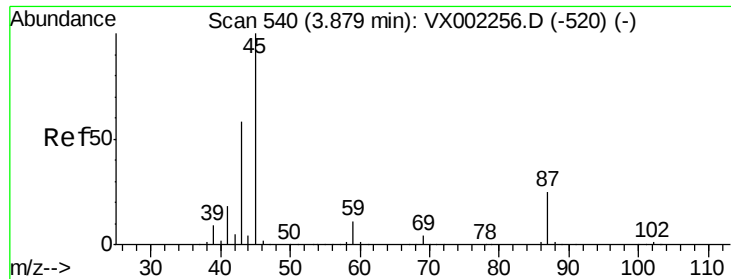


#20

Methylene Chloride
 Concen: Below Cal
 RT: 2.86 min Scan# 372
 Delta R.T. -0.01 min
 Lab File: VX002314.D
 Acq: 05 Jun 2018 19:04

Tgt Ion: 84 Resp: 641
 Ion Ratio Lower Upper
 84 100
 49 110.1 107.8 161.6
 51 19.8 32.8 49.2#
 86 49.7 52.5 78.7#

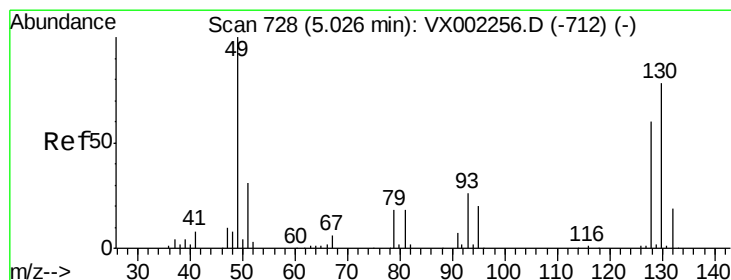
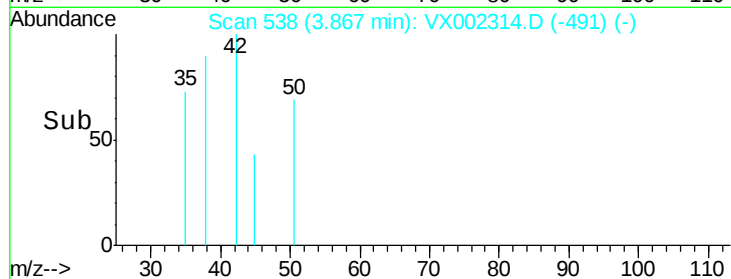
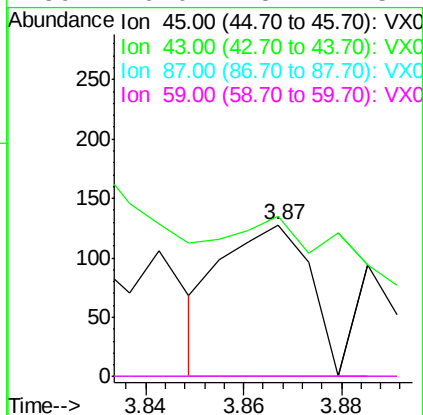
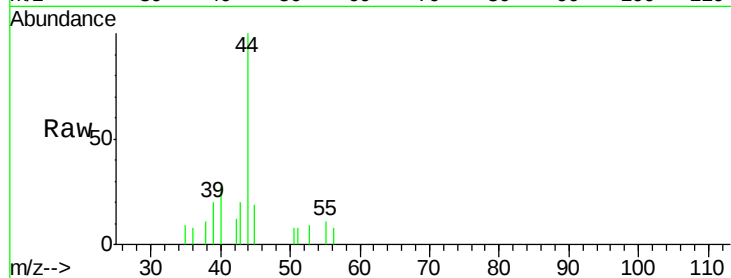




#22
Diisopropyl ether
Concen: Below Cal
RT: 3.87 min Scan# 538
Delta R.T. -0.01 min
Lab File: VX002314.D
Acq: 05 Jun 2018 19:04

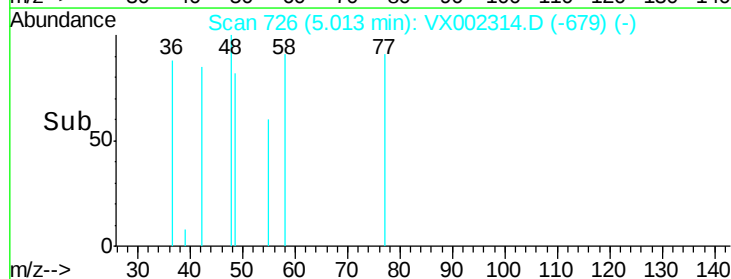
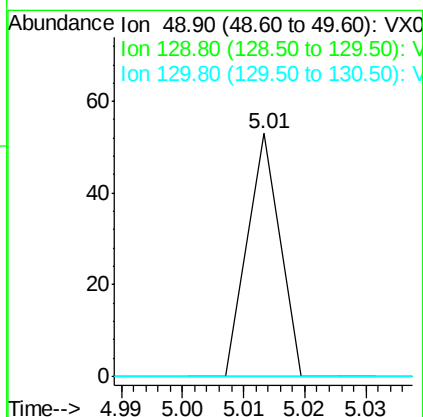
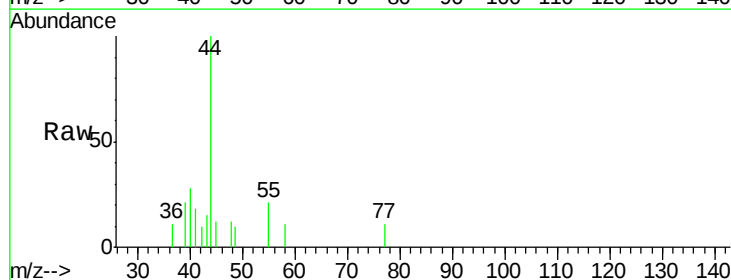
Instrument :
MSVOA_X
ClientSampled :

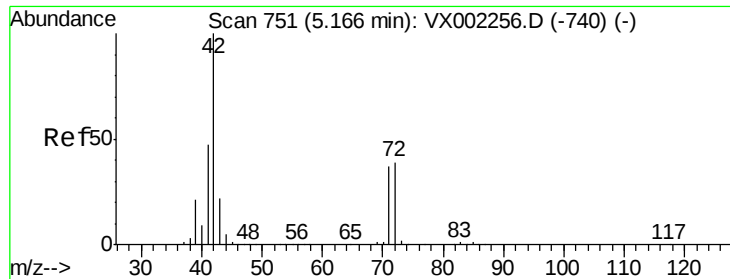
Tot Ion:	45	Resp:	159
Ion	Ratio	Lower	Upper
45	100		
43	18.0	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#



#28
Bromochloromethane
Concen: Below Cal
RT: 5.01 min Scan# 726
Delta R.T. -0.01 min
Lab File: VX002314.D
Acq: 05 Jun 2018 19:04

Tgt Ion:	49	Resp:	19
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	0.0	61.2	91.8#

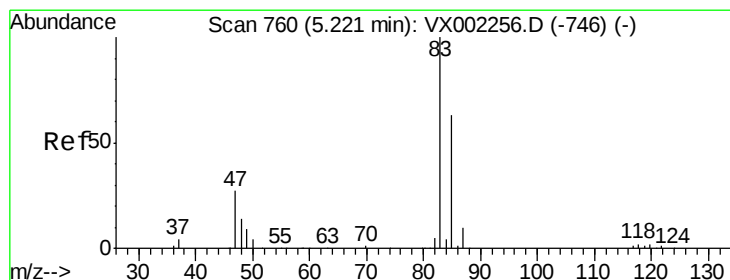
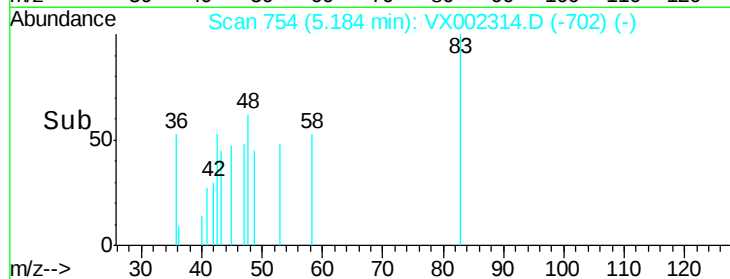
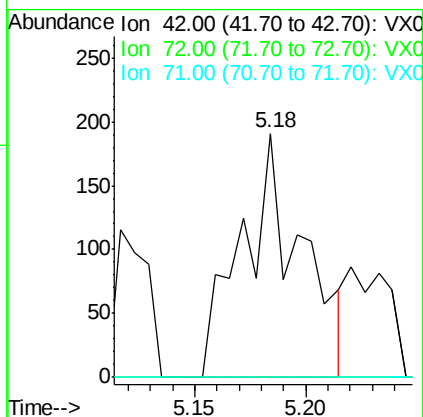
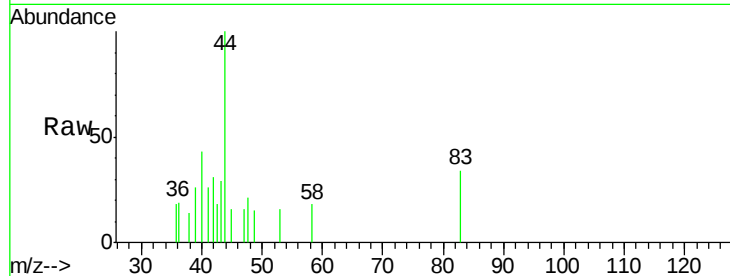




#29
Tetrahydrofuran
Concen: 0.25 ug/l
RT: 5.18 min Scan# 754
Delta R.T. 0.02 min
Lab File: VX002314.D
Acq: 05 Jun 2018 19:04

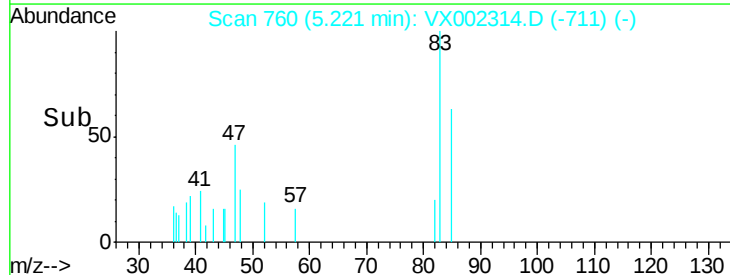
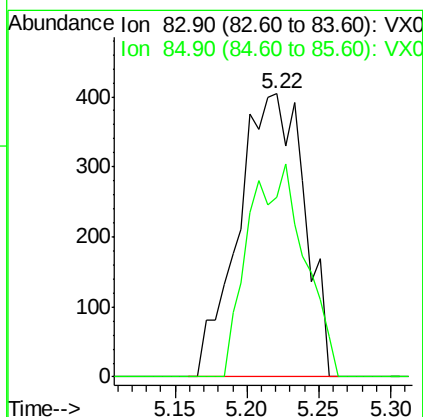
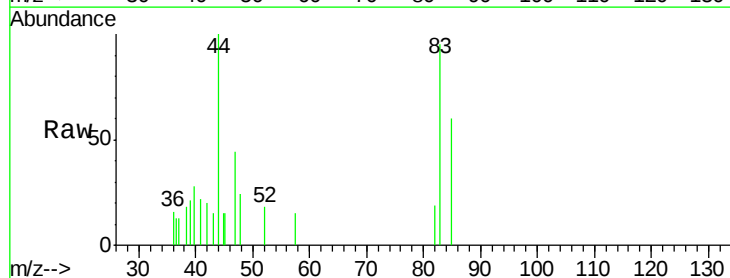
Instrument :
MSVOA_X
ClientSampled :

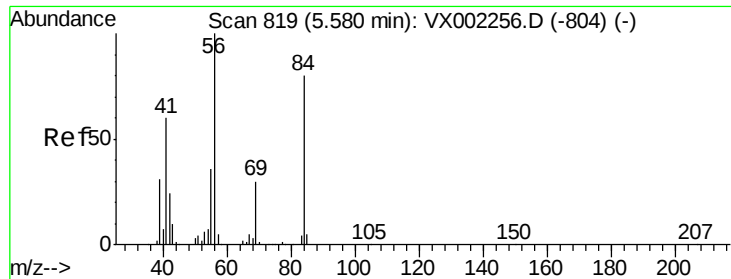
Tot Ion: 42 Resp: 354
Ion Ratio Lower Upper
42 100
72 0.0 32.0 48.0#
71 0.0 30.1 45.1#



#30
Chloroform
Concen: 0.27 ug/l
RT: 5.22 min Scan# 760
Delta R.T. -0.00 min
Lab File: VX002314.D
Acq: 05 Jun 2018 19:04

Tgt Ion: 83 Resp: 1288
Ion Ratio Lower Upper
83 100
85 63.4 50.4 75.6

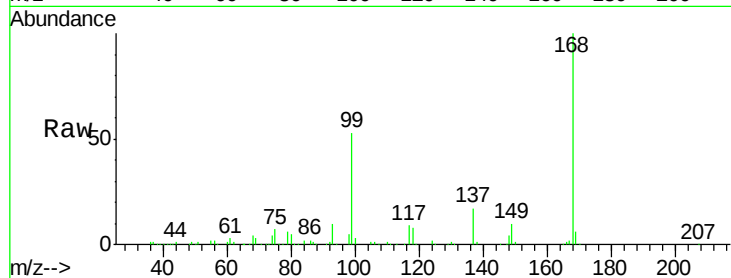




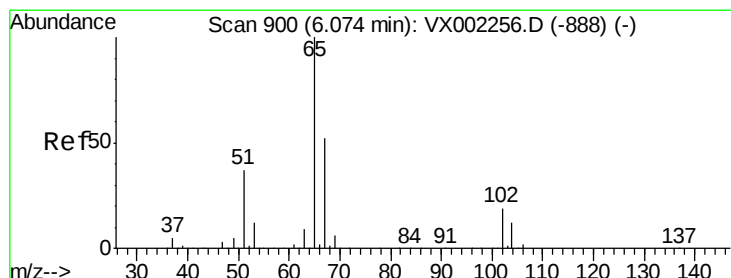
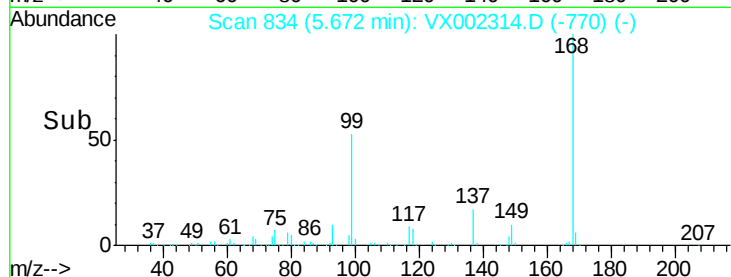
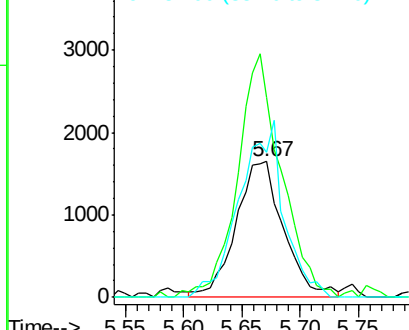
#31
Cyclohexane
Concen: 1.18 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.09 min
Lab File: VX002314.D
Acq: 05 Jun 2018 19:04

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 4695
Ion Ratio Lower Upper
56 100
69 153.8 23.7 35.5#
84 111.5 64.1 96.1#

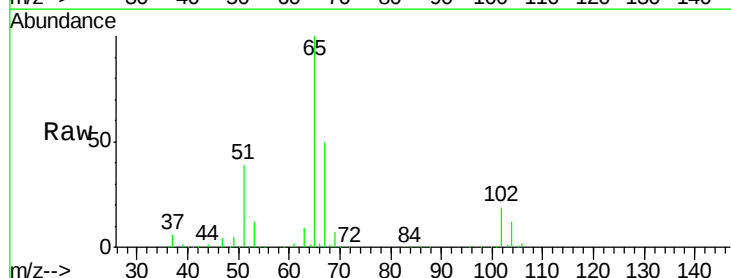


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

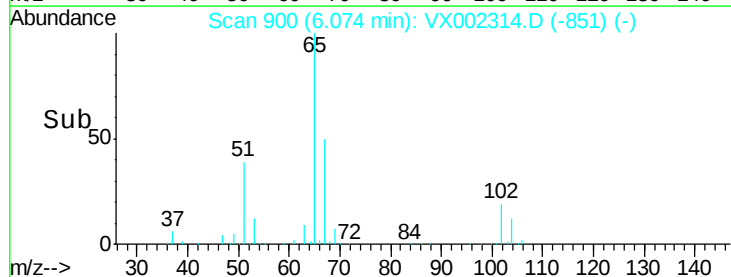
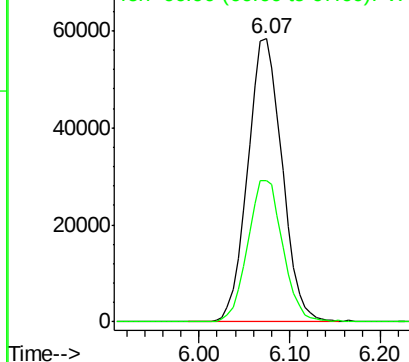


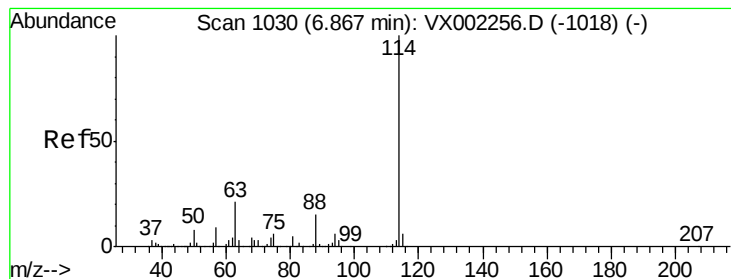
#33
1,2-Dichloroethane-d4
Concen: 48.46 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002314.D
Acq: 05 Jun 2018 19:04

Tgt Ion: 65 Resp: 153127
Ion Ratio Lower Upper
65 100
67 51.0 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: VX002314.D

Acq: 05 Jun 2018 19:04

Instrument :
MSVOA_X
ClientSampleId :

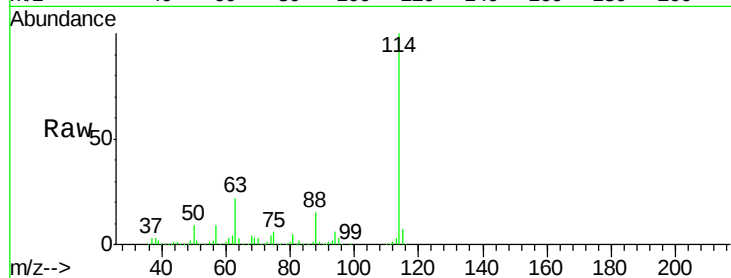
Tot Ion:114 Resp: 319907

Ion Ratio Lower Upper

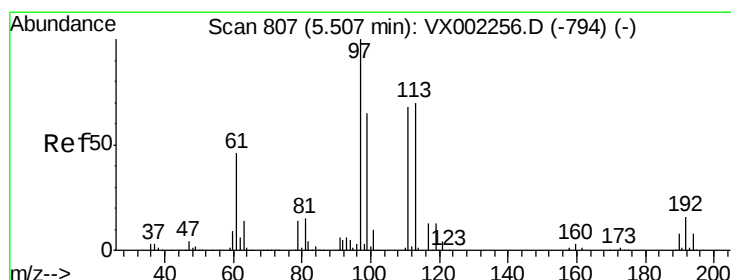
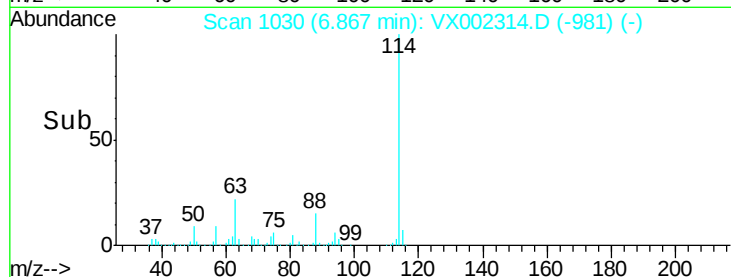
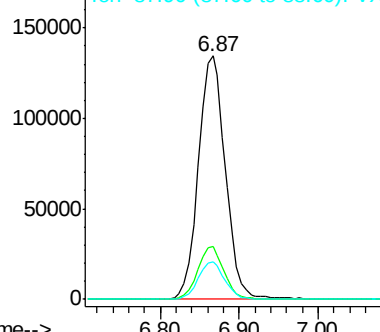
114 100

63 21.8 0.0 41.4

88 15.3 0.0 30.0



Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 44.33 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002314.D

Acq: 05 Jun 2018 19:04

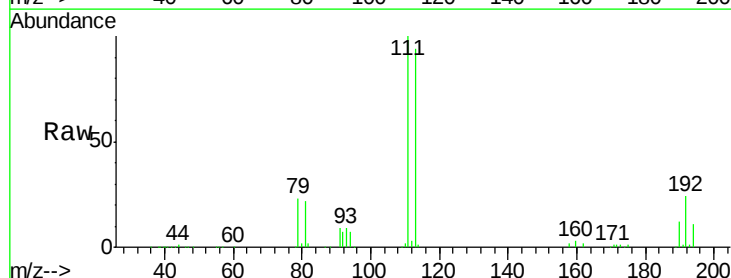
Tgt Ion:113 Resp: 111527

Ion Ratio Lower Upper

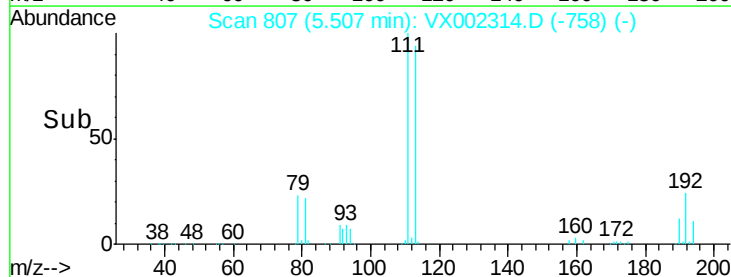
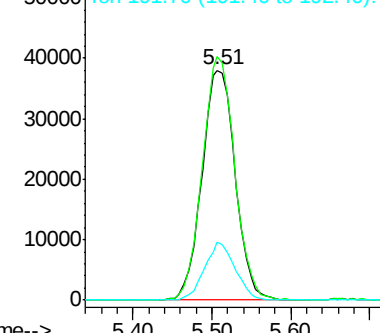
113 100

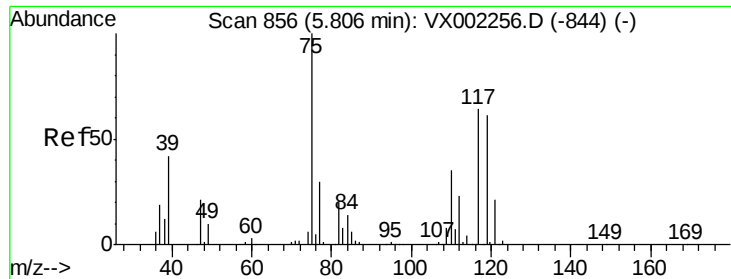
111 103.1 81.4 122.0

192 23.2 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

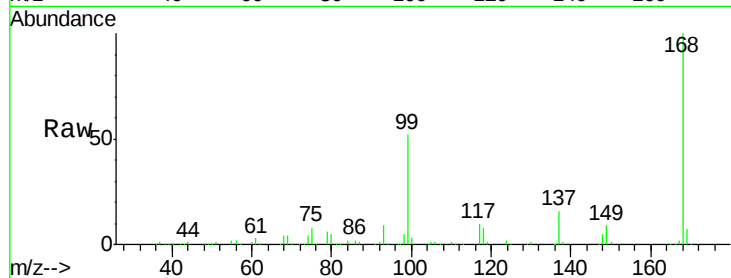




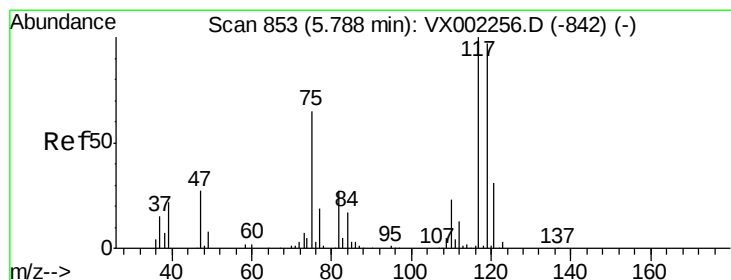
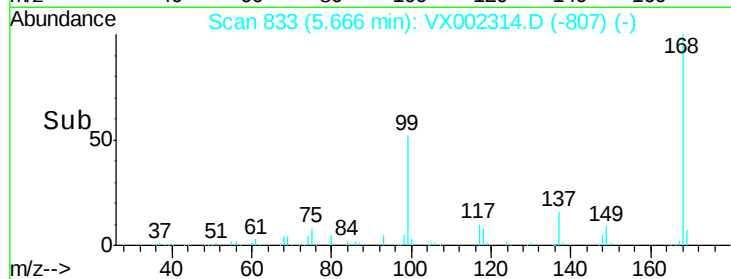
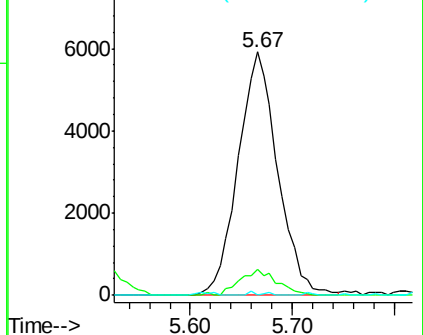
#36
 1,1-Dichloropropene
 Concen: 4.73 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002314.D
 Acq: 05 Jun 2018 19:04

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 15902
 Ion Ratio Lower Upper
 75 100
 110 10.0 18.1 54.4#
 77 0.2 24.3 36.5#

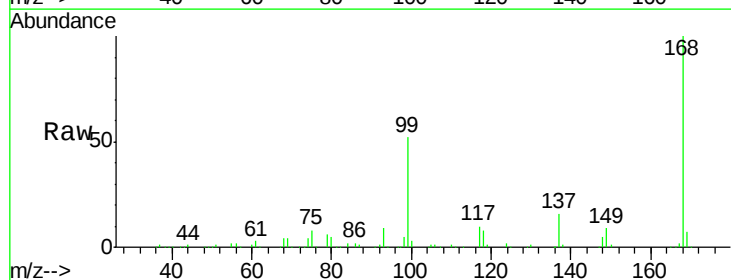


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

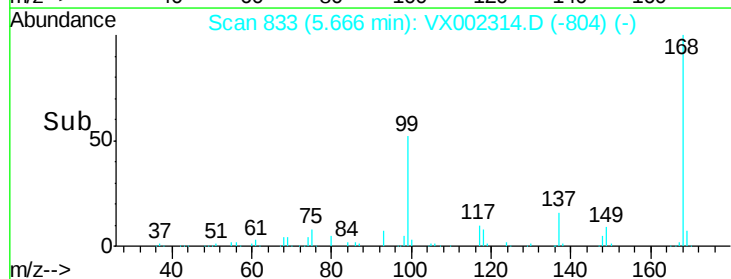
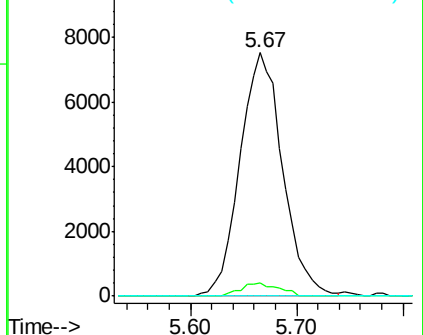


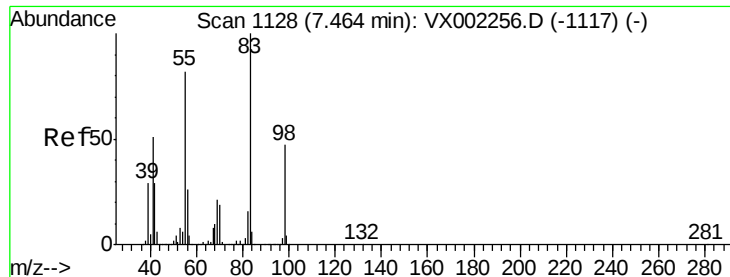
#38
 Carbon Tetrachloride
 Concen: 5.99 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002314.D
 Acq: 05 Jun 2018 19:04

Tgt Ion:117 Resp: 21072
 Ion Ratio Lower Upper
 117 100
 119 5.5 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

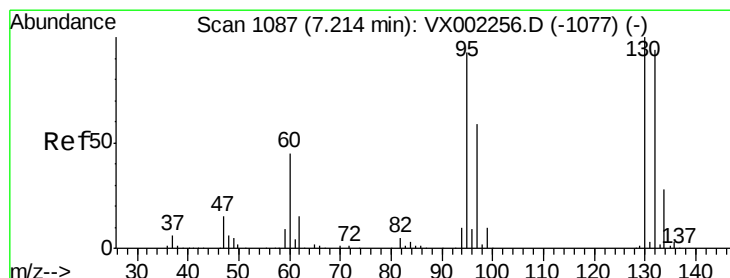
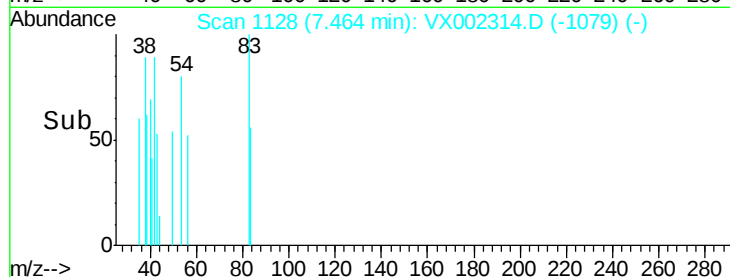
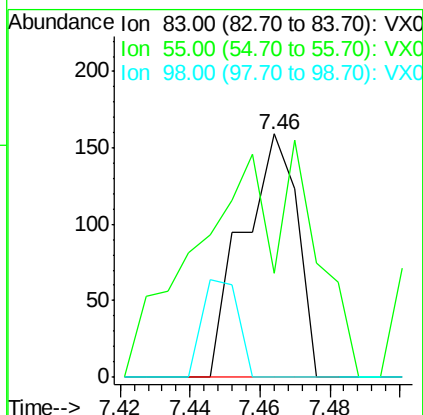
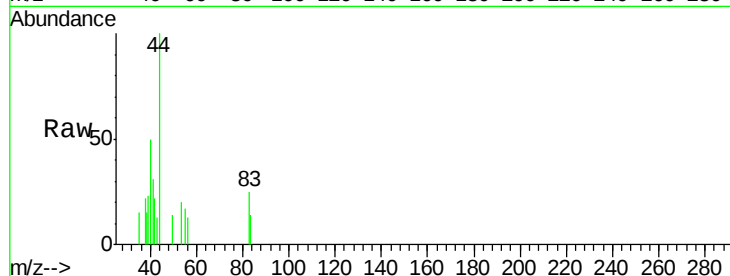




#39
Methvlcvclohexane
Concen: 0.30 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. 0.00 min
Lab File: VX002314.D
Acq: 05 Jun 2018 19:04

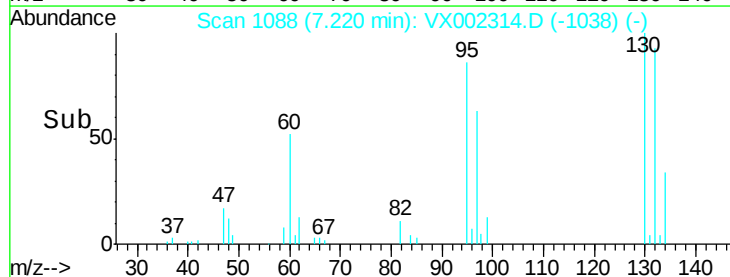
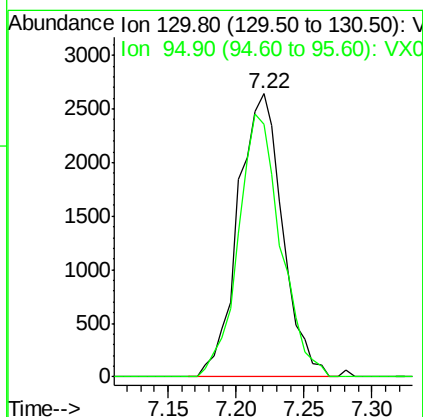
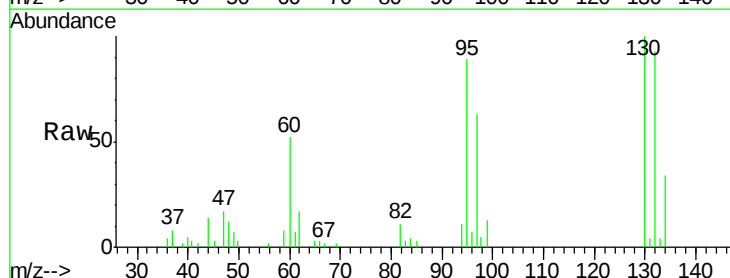
Instrument :
MSVOA_X
ClientSampled :

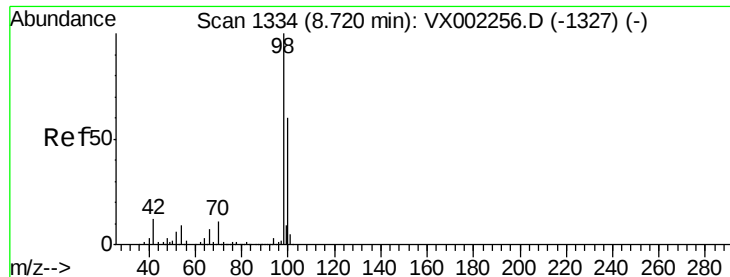
Tot Ion: 83 Resp: 173
Ion Ratio Lower Upper
83 100
55 3.8 65.4 98.0#
98 0.0 37.4 56.0#



#44
Trichloroethene
Concen: 2.10 ug/l
RT: 7.22 min Scan# 1088
Delta R.T. 0.01 min
Lab File: VX002314.D
Acq: 05 Jun 2018 19:04

Tgt Ion:130 Resp: 6023
Ion Ratio Lower Upper
130 100
95 89.3 0.0 185.4





#50

Toluene-d8

Concen: 47.54 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002314.D

Acq: 05 Jun 2018 19:04

Instrument :

MSVOA_X

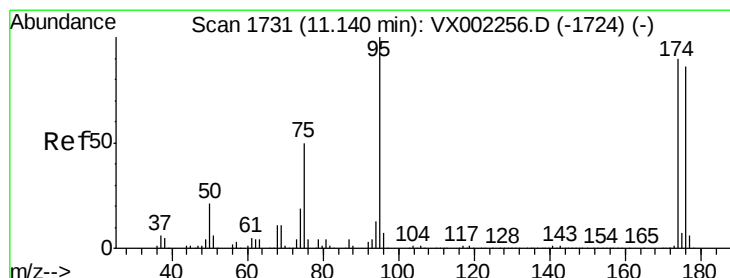
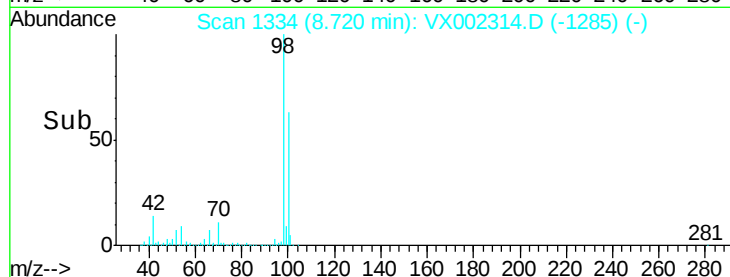
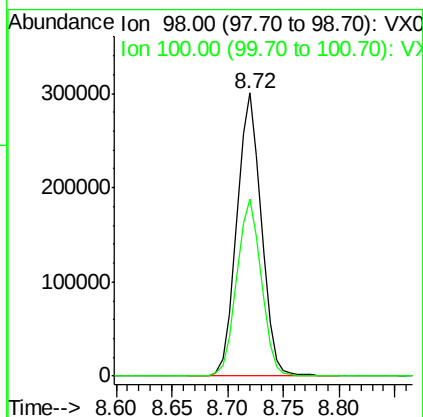
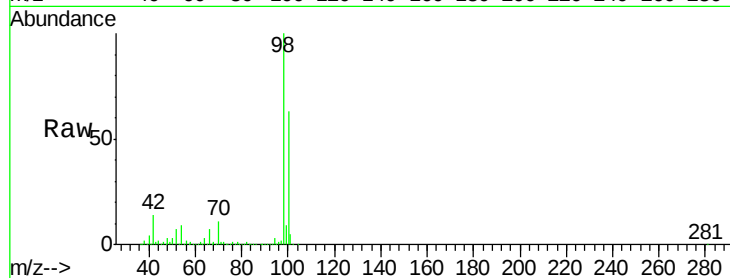
ClientSampleId :

Tot Ion: 98 Resp: 458399

Ion Ratio Lower Upper

98 100

100 63.0 50.9 76.3



#62

4-Bromofluorobenzene

Concen: 42.94 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002314.D

Acq: 05 Jun 2018 19:04

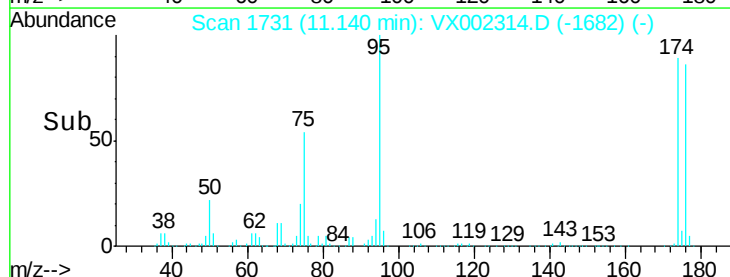
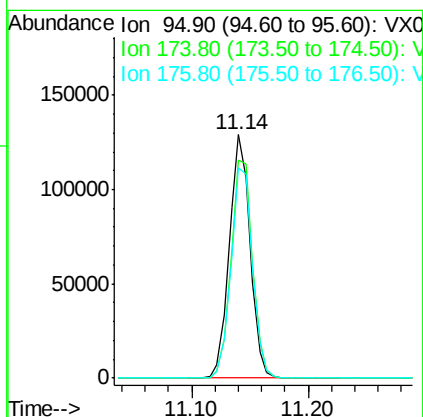
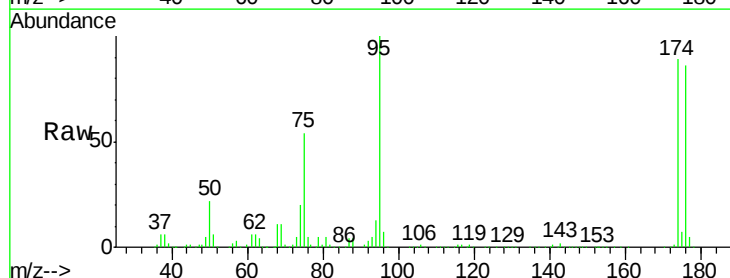
Tgt Ion: 95 Resp: 159674

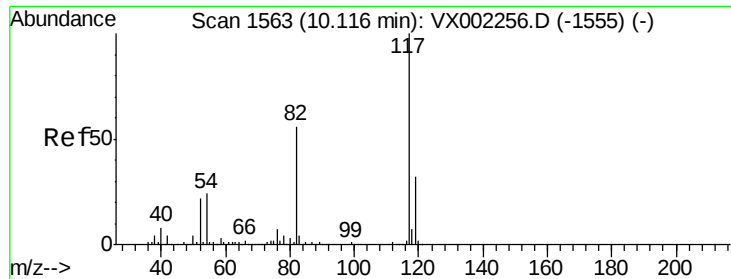
Ion Ratio Lower Upper

95 100

174 93.4 0.0 187.4

176 89.8 0.0 181.0

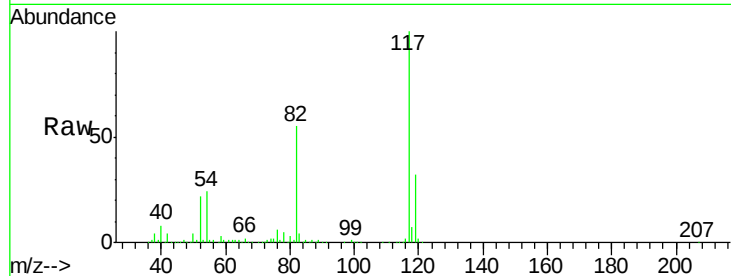




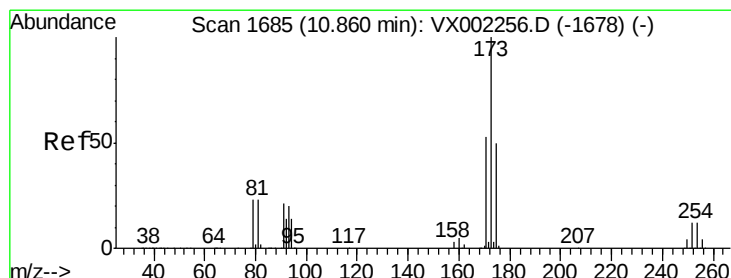
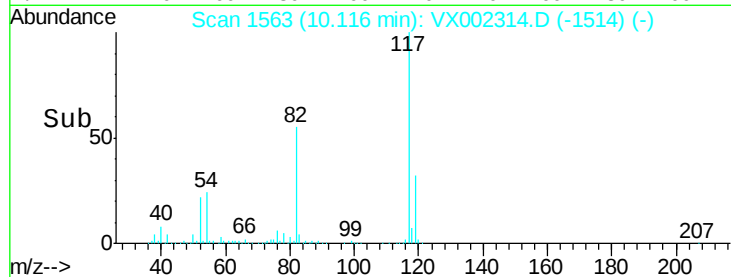
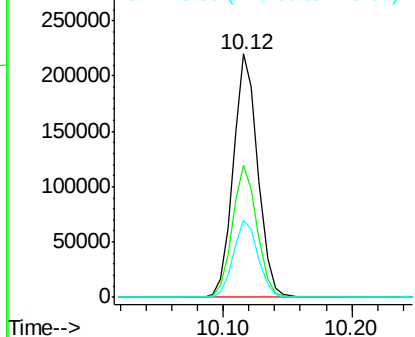
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002314.D
Acq: 05 Jun 2018 19:04

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.5	45.0	67.4
119	31.7	25.8	38.6

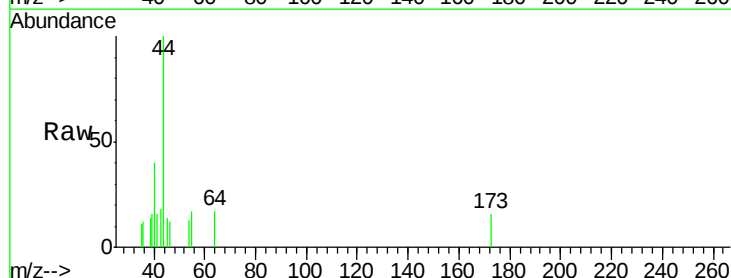


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

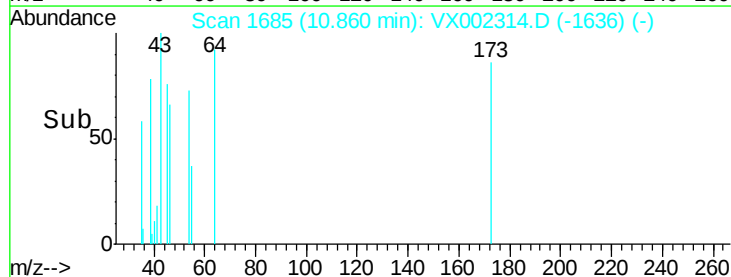
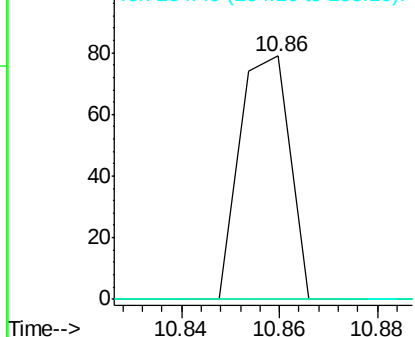


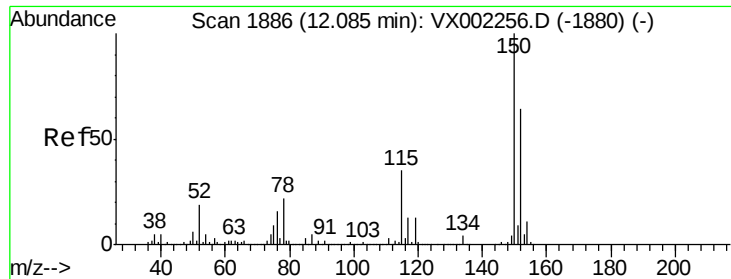
#71
Bromoform
Concen: 3.48 ug/l
RT: 10.86 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VX002314.D
Acq: 05 Jun 2018 19:04

Tgt Ion	Ratio	Lower	Upper
173	100		
175	0.0	24.7	74.1#
254	0.0	0.2	0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): 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: VX002314.D

Acq: 05 Jun 2018 19:04

Instrument :

MSVOA_X

ClientSampled :

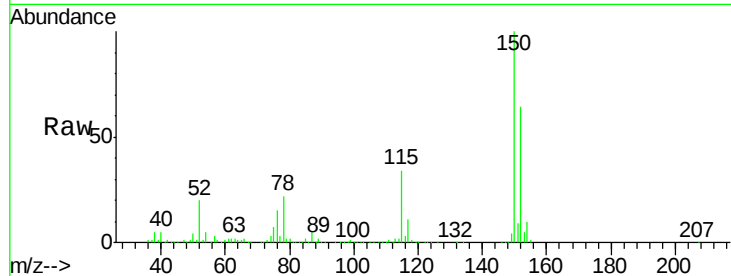
Tot Ion:152 Resp: 160614

Ion Ratio Lower Upper

152 100

115 55.3 40.1 120.2

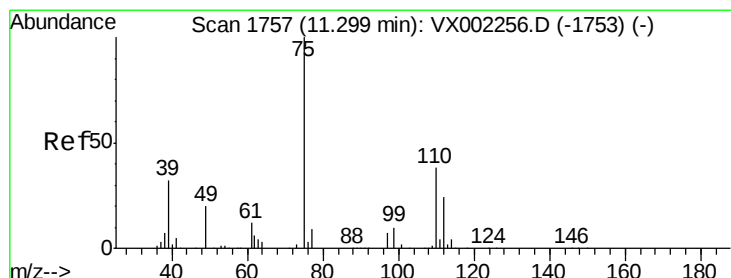
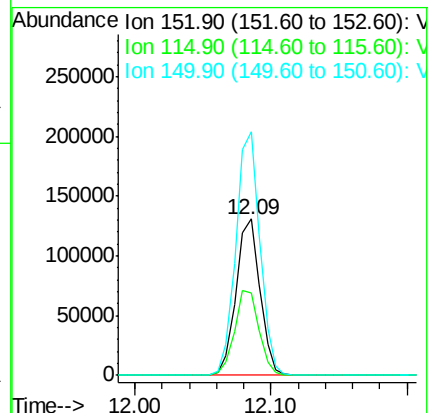
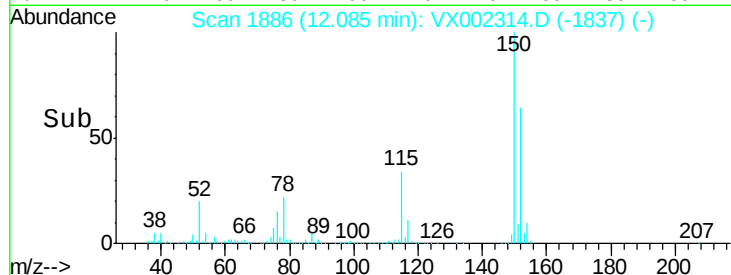
150 155.9 0.0 347.2



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: 24.32 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002314.D

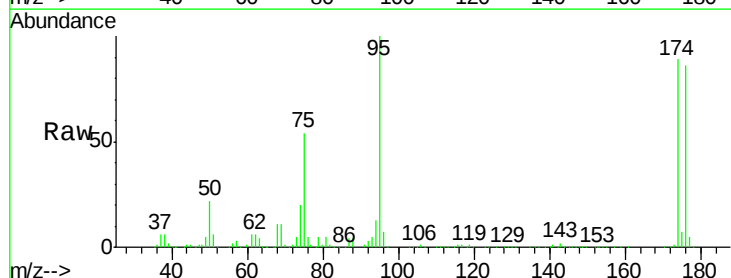
Acq: 05 Jun 2018 19:04

Tgt Ion: 75 Resp: 85724

Ion Ratio Lower Upper

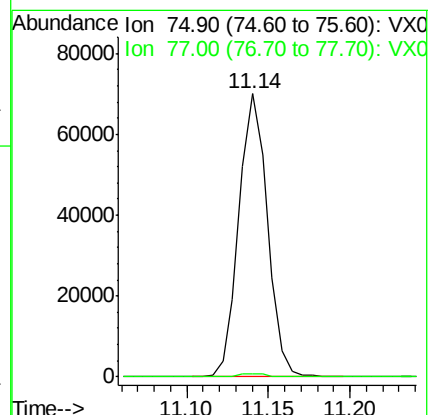
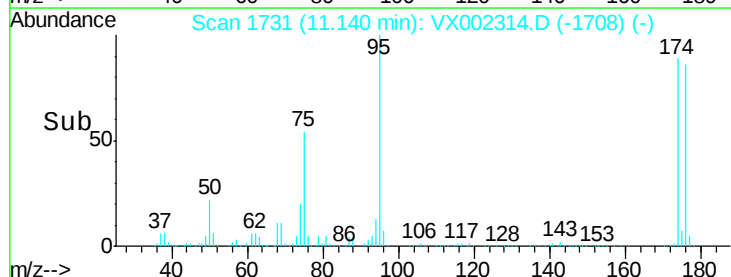
75 100

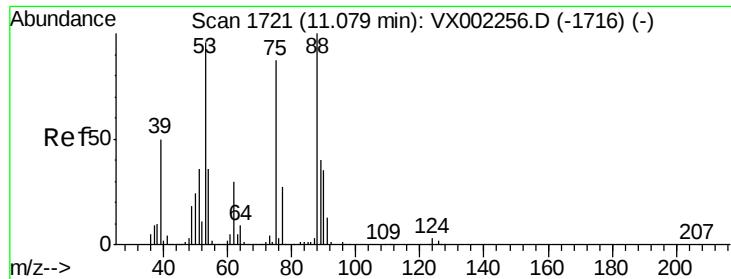
77 1.2 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 85.26 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002314.D

Acq: 05 Jun 2018 19:04

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 85724

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#

