

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061418\
 Data File : VX002572.D
 Acq On : 15 Jun 2018 01:10
 Operator : JC/MD
 Sample : PB110227ZHE#10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 15 03:22:46 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	226212	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	324681	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	309674	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	179223	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	157422	48.57	ug/l	0.00
Spiked Amount			Recovery	=	97.14%	
35) Dibromofluoromethane	5.51	113	117521	46.03	ug/l	0.00
Spiked Amount			Recovery	=	92.06%	
50) Toluene-d8	8.72	98	470346	48.06	ug/l	0.00
Spiked Amount			Recovery	=	96.12%	
62) 4-Bromofluorobenzene	11.14	95	169999	45.05	ug/l	0.00
Spiked Amount			Recovery	=	90.10%	

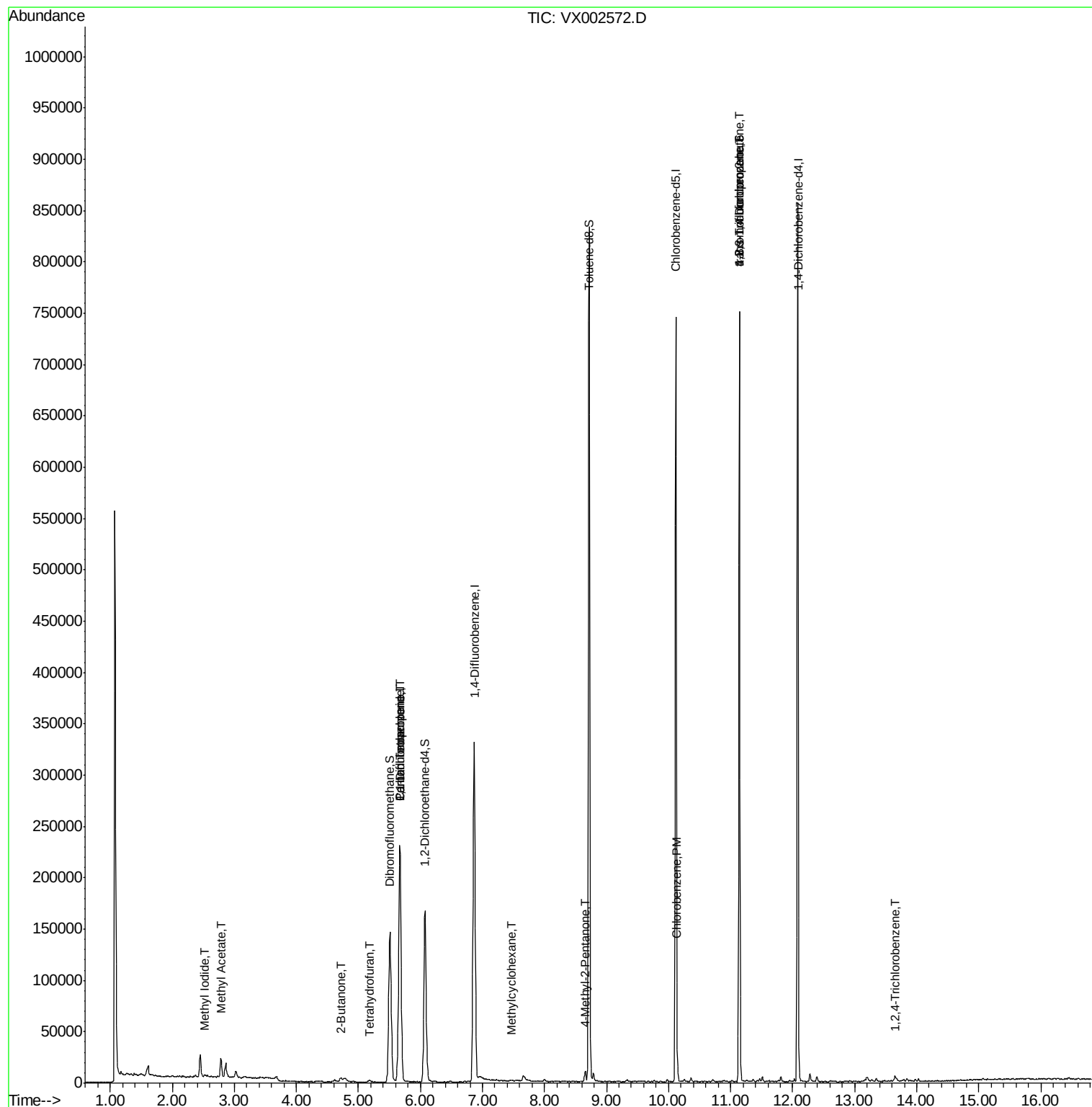
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	572	Below Cal	#	86
5) Bromomethane	1.65	94	1365	Below Cal	#	54
8) Diethyl Ether	2.20	74	135	Below Cal	#	1
10) Methyl Iodide	2.53	142	2170	0.63	ug/l	95
11) Tert butyl alcohol	3.02	59	3718	Below Cal	#	92
13) Acrolein	2.31	56	196	Below Cal	#	14
15) Acrylonitrile	3.16	53	614	Below Cal	#	69
16) Acetone	2.45	43	23815	Below Cal		99
18) Methyl Acetate	2.78	43	21654	4.21	ug/l	97
19) Methyl tert-butyl Ether	3.20	73	138	Below Cal	#	88
20) Methylene Chloride	2.86	84	6169	Below Cal		92
22) Diisopropyl ether	3.88	45	498	Below Cal	#	43
25) 2-Butanone	4.71	43	7588	3.42	ug/l	98
28) Bromochloromethane	5.01	49	45	Below Cal	#	13
29) Tetrahydrofuran	5.18	42	1614	1.13	ug/l	74
36) 1,1-Dichloropropene	5.67	75	15889	4.65	ug/l	50
38) Carbon Tetrachloride	5.67	117	20898	5.85	ug/l	16
39) Methylcyclohexane	7.47	83	451	0.37	ug/l	74
51) 4-Methyl-2-Pentanone	8.66	43	5951	1.37	ug/l	93
65) Chlorobenzene	10.14	112	3087	0.40	ug/l	100
76) 1,2,3-Trichloropropane	11.14	75	92437	23.51	ug/l	32
81) trans-1,4-Dichloro-2-buten	11.14	75	92437	82.39	ug/l	6
93) 1,2,4-Trichlorobenzene	13.65	180	965	0.21	ug/l	98

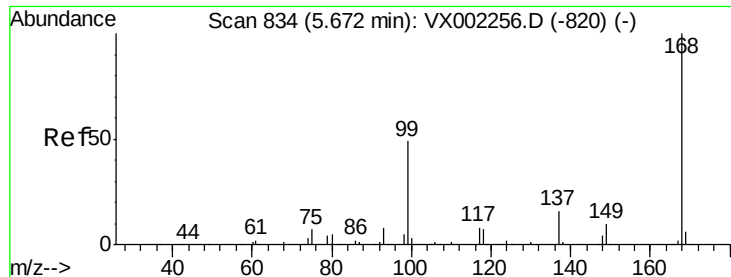
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 833

Delta R.T. -0.01 min

Lab File: VX002572.D

Acq: 15 Jun 2018 01:10

Instrument :

MSVOA_X

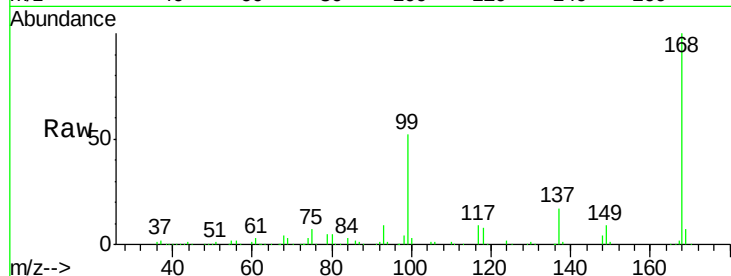
ClientSampleId :

Tot Ion:168 Resp: 226212

Ion Ratio Lower Upper

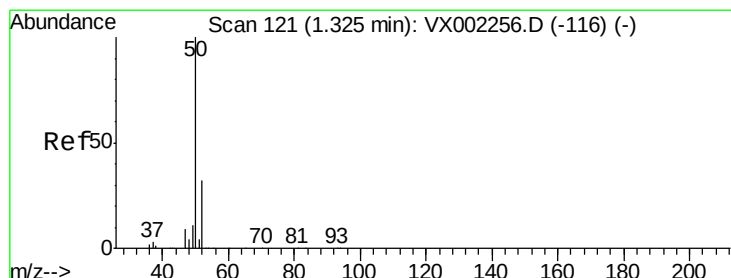
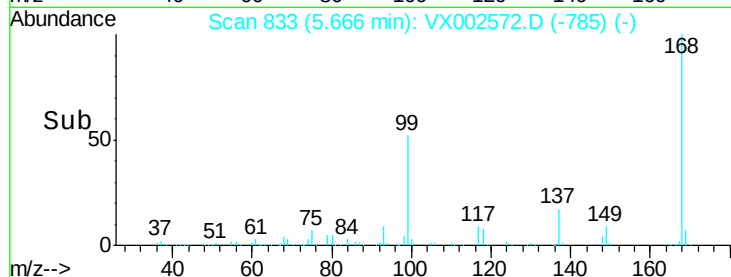
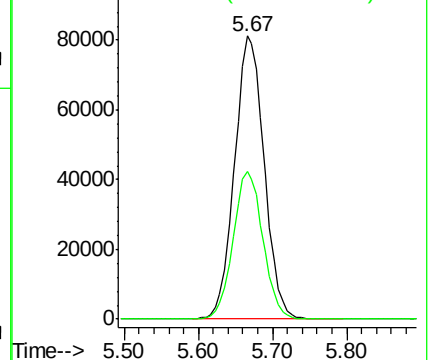
168 100

99 52.2 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: VX002572.D

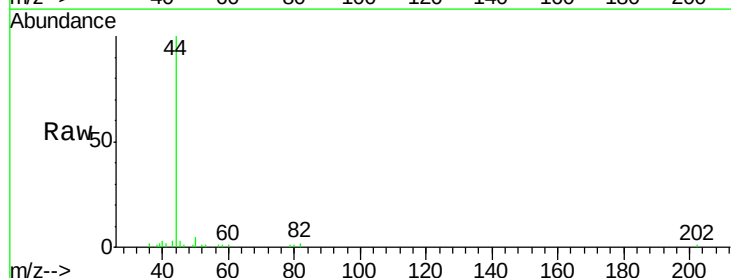
Acq: 15 Jun 2018 01:10

Tgt Ion: 50 Resp: 572

Ion Ratio Lower Upper

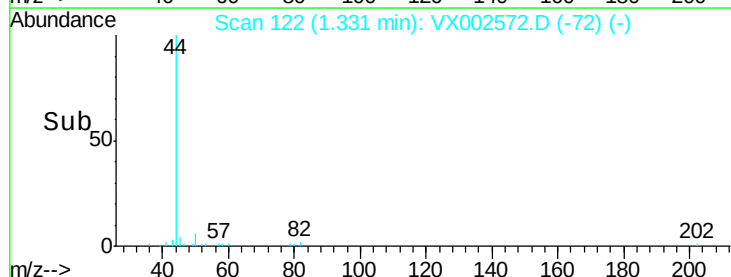
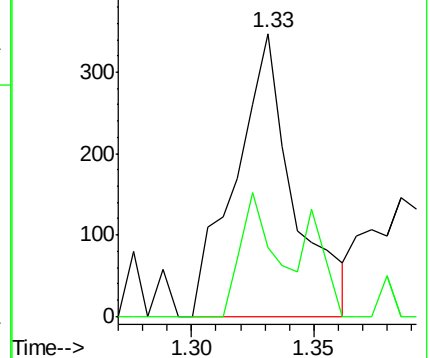
50 100

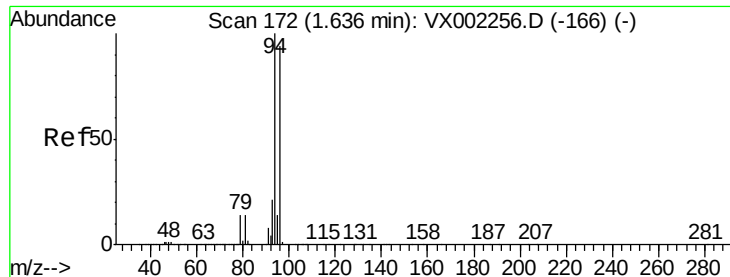
52 24.4 25.7 38.5#



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: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002572.D

Acq: 15 Jun 2018 01:10

Instrument :

MSVOA_X

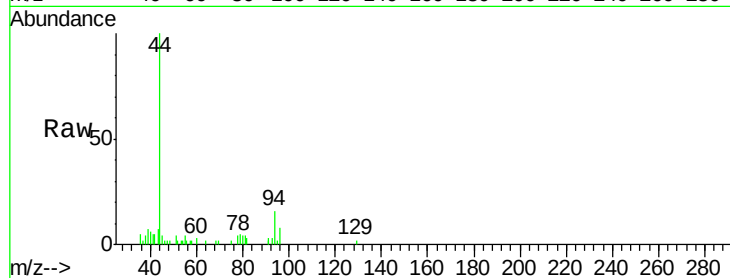
ClientSampleId :

Tot Ion: 94 Resp: 1365

Ion Ratio Lower Upper

94 100

96 49.4 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

600

500

400

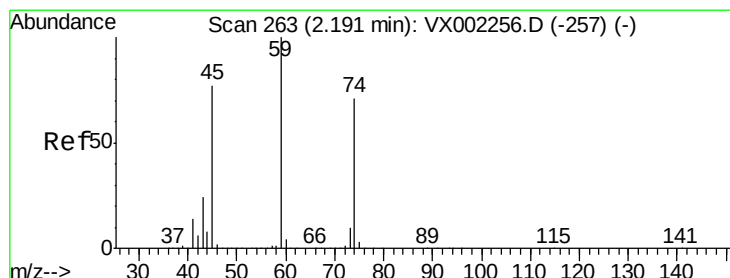
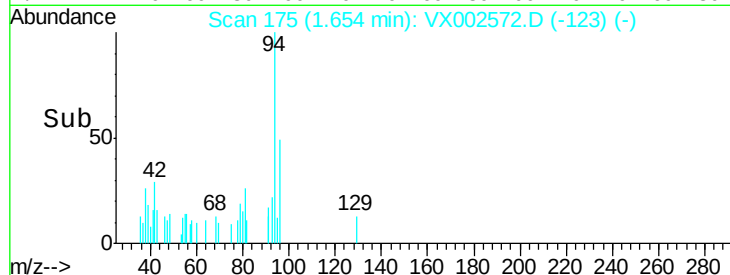
300

200

100

0

Time-->



#8

Diethyl Ether

Concen: Below Cal

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX002572.D

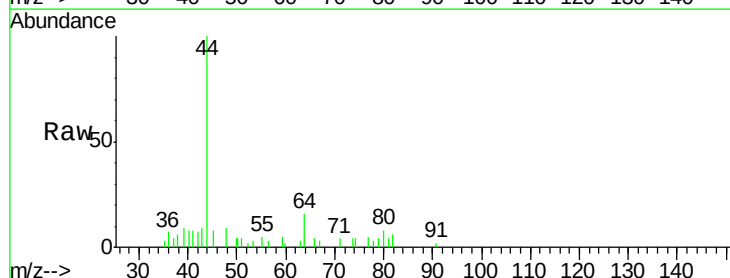
Acq: 15 Jun 2018 01:10

Tgt Ion: 74 Resp: 135

Ion Ratio Lower Upper

74 100

45 0.0 53.1 159.4#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

250

200

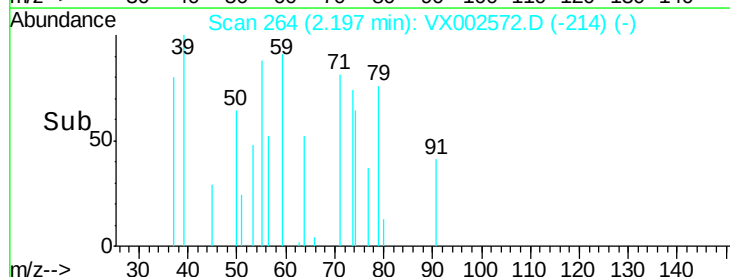
150

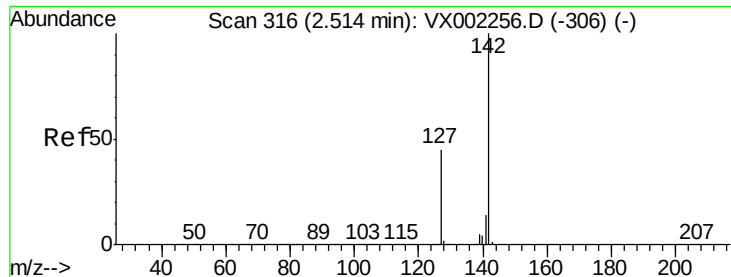
100

50

0

Time-->





#10

Methvl Iodide

Concen: 0.63 ua/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX002572.D

Acq: 15 Jun 2018 01:10

Instrument :

MSVOA_X

ClientSampled :

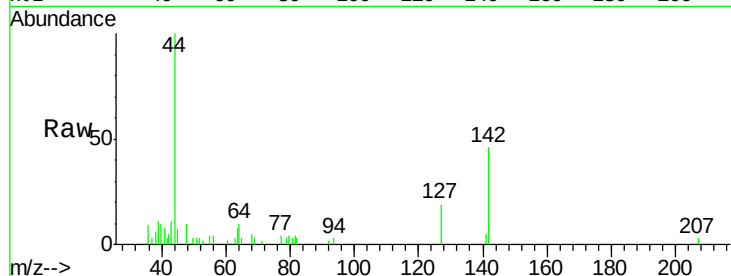
Tot Ion:142 Resp: 2170

Ion Ratio Lower Upper

142 100

127 50.3 36.6 55.0

141 13.8 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

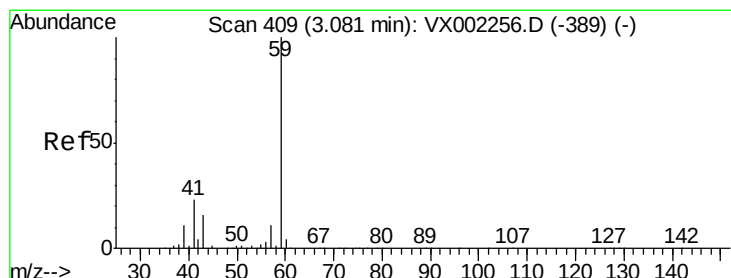
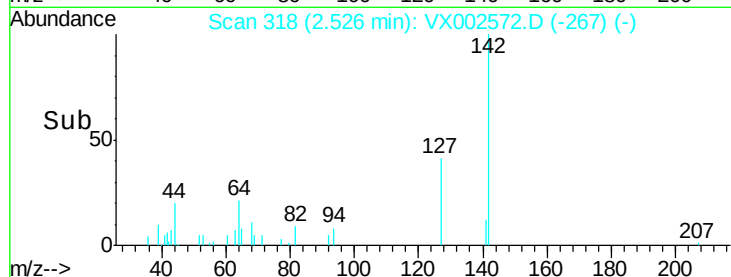
2.53

1000

500

0

Time--> 2.45 2.50 2.55 2.60



#11

Tert butyl alcohol

Concen: Below Cal

RT: 3.02 min Scan# 399

Delta R.T. -0.06 min

Lab File: VX002572.D

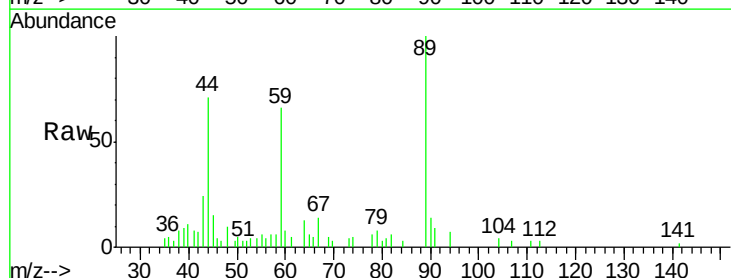
Acq: 15 Jun 2018 01:10

Tgt Ion: 59 Resp: 3718

Ion Ratio Lower Upper

59 100

57 7.2 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.02

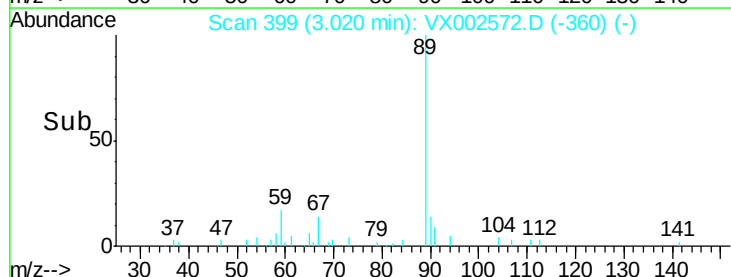
1500

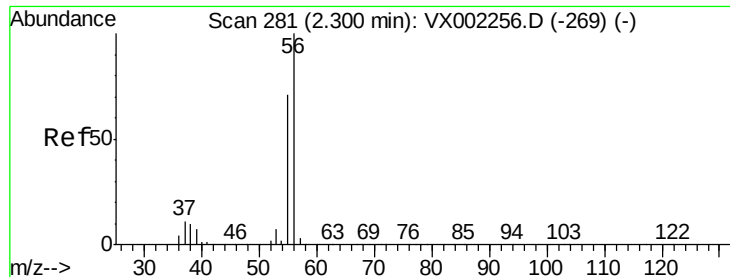
1000

500

0

Time--> 3.00 3.10





#13

Acrolein

Concen: Below Cal

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX002572.D

Acq: 15 Jun 2018 01:10

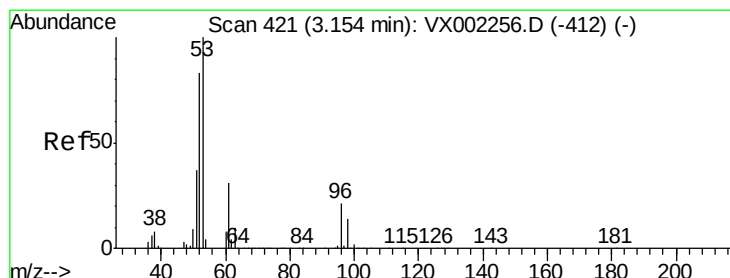
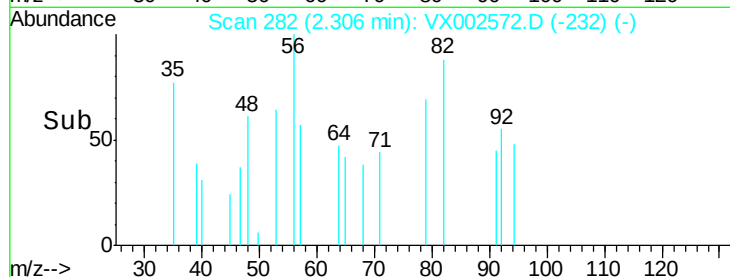
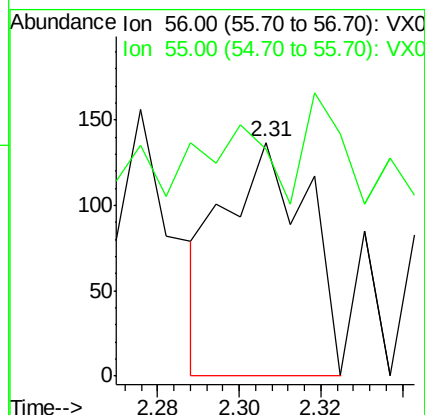
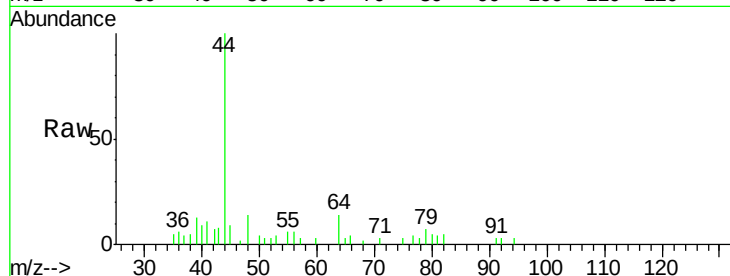
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 196

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX002572.D

Acq: 15 Jun 2018 01:10

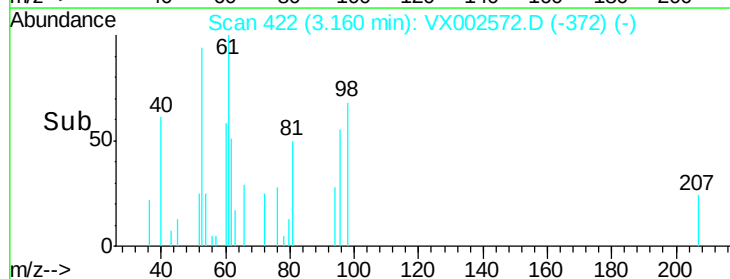
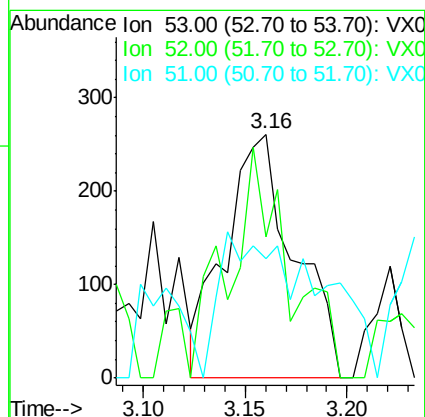
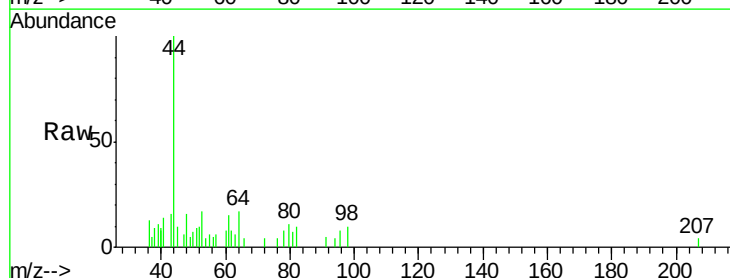
Tgt Ion: 53 Resp: 614

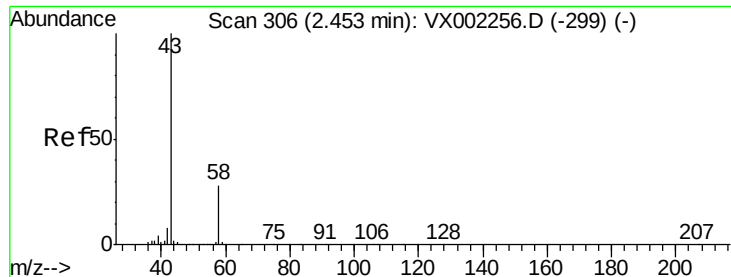
Ion Ratio Lower Upper

53 100

52 91.5 66.7 100.1

51 85.0 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002572.D

Acq: 15 Jun 2018 01:10

Instrument :

MSVOA_X

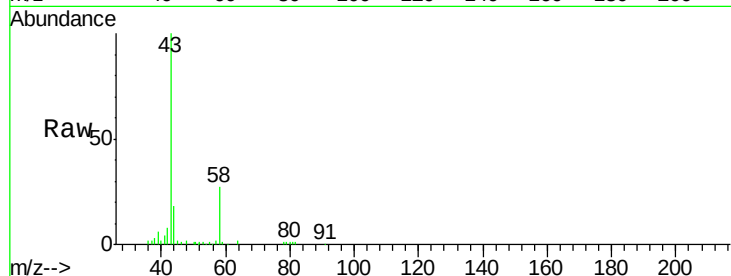
ClientSampleId :

Tot Ion: 43 Resp: 23815

Ion Ratio Lower Upper

43 100

58 27.1 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

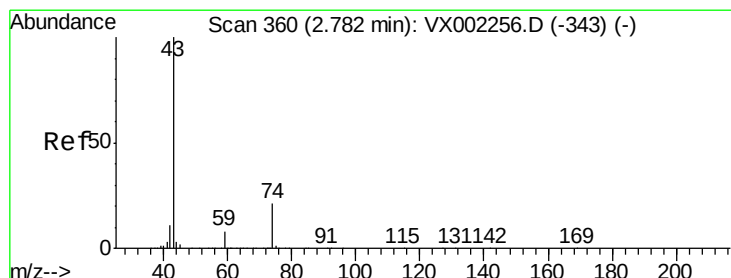
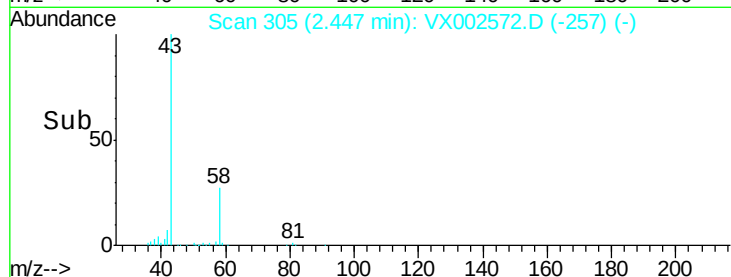
15000

10000

5000

0

Time--> 2.35 2.40 2.45 2.50 2.55



#18

Methyl Acetate

Concen: 4.21 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002572.D

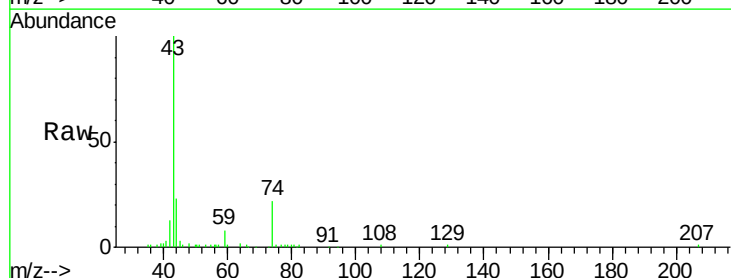
Acq: 15 Jun 2018 01:10

Tgt Ion: 43 Resp: 21654

Ion Ratio Lower Upper

43 100

74 22.5 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

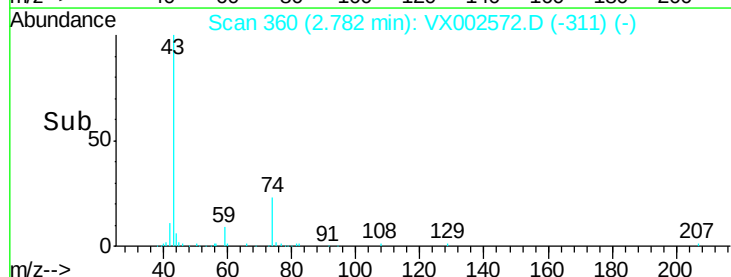
2.78

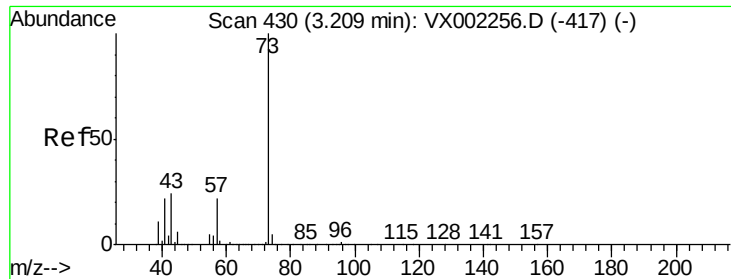
10000

5000

0

Time--> 2.70 2.75 2.80 2.85

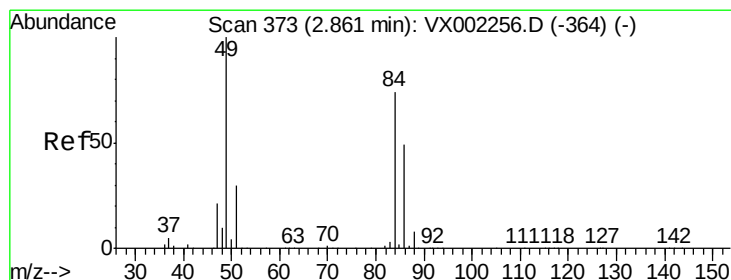
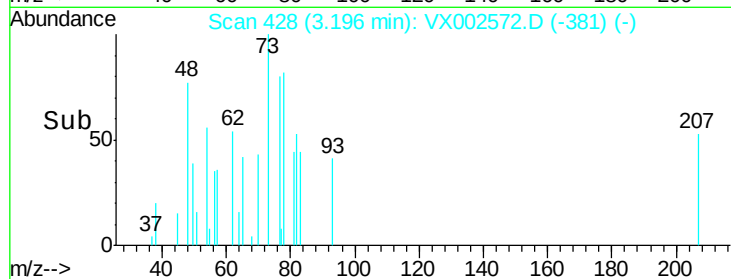
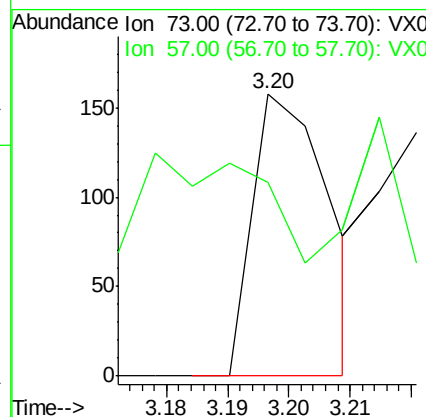
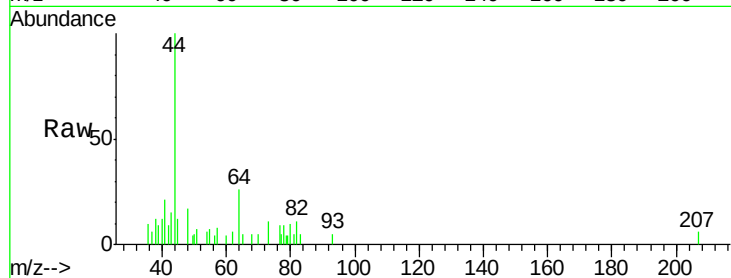




#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.20 min Scan# 428
Delta R.T. -0.01 min
Lab File: VX002572.D
Acq: 15 Jun 2018 01:10

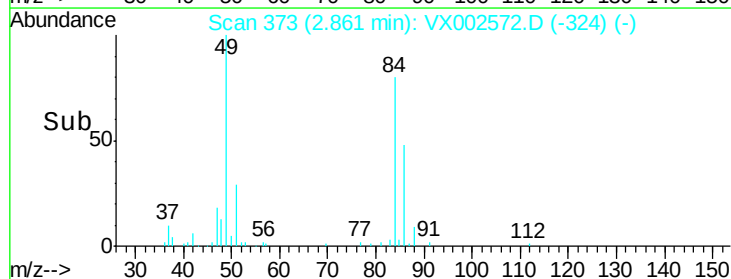
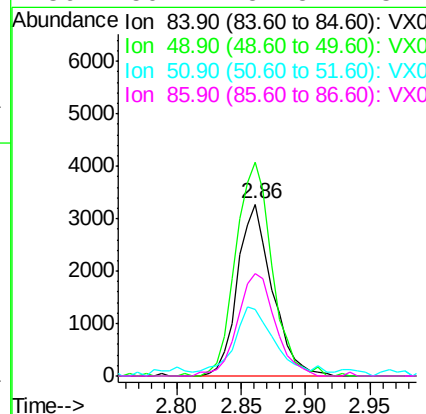
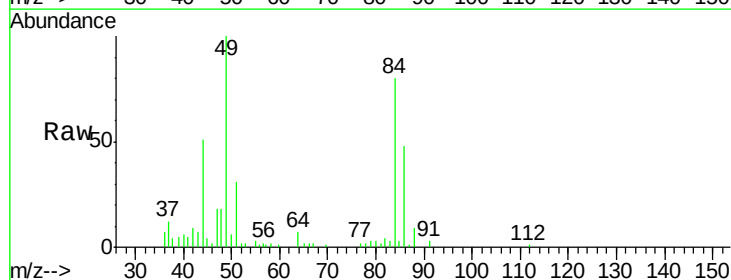
Instrument :
MSVOA_X
ClientSampleId :

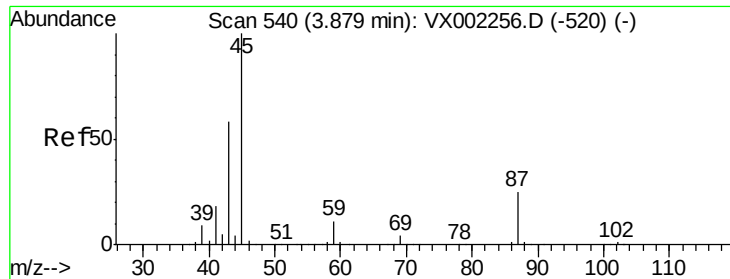
Tot Ion: 73 Resp: 138
Ion Ratio Lower Upper
73 100
57 16.5 17.7 26.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002572.D
Acq: 15 Jun 2018 01:10

Tgt Ion: 84 Resp: 6169
Ion Ratio Lower Upper
84 100
49 124.3 107.8 161.6
51 35.9 32.8 49.2
86 59.7 52.5 78.7

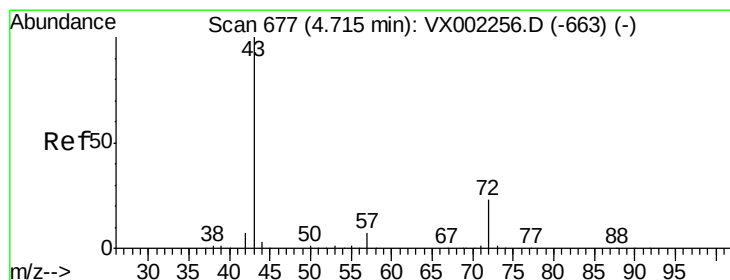
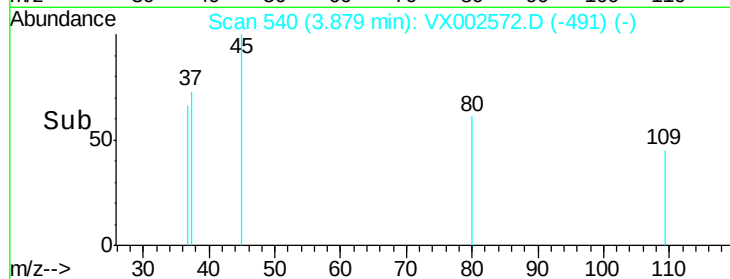
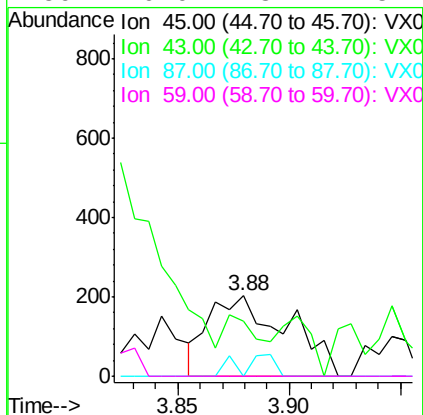
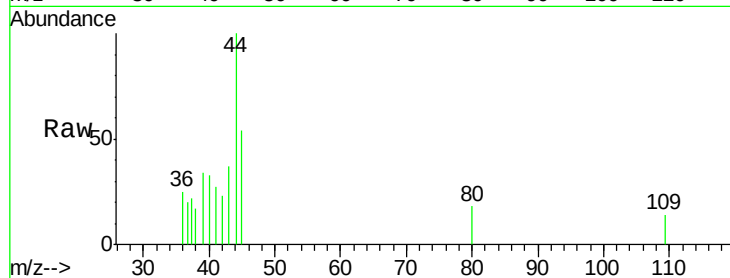




#22
Diisopropyl ether
Concen: Below Cal
RT: 3.88 min Scan# 540
Delta R.T. 0.00 min
Lab File: VX002572.D
Acq: 15 Jun 2018 01:10

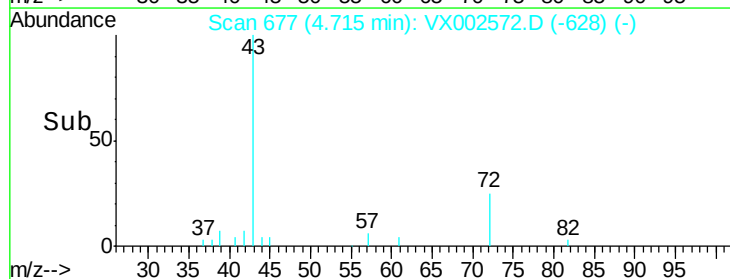
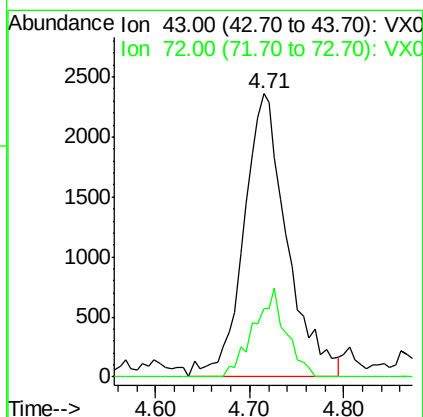
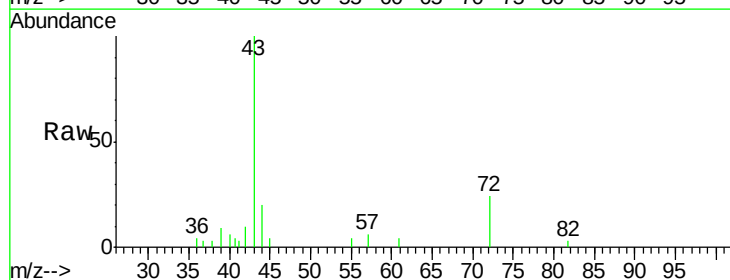
Instrument :
MSVOA_X
ClientSampleId :

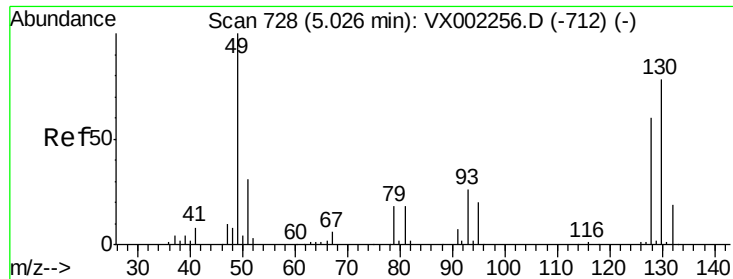
Tot Ion:	45	Resp:	498
Ion	Ratio	Lower	Upper
45	100		
43	9.4	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#



#25
2-Butanone
Concen: 3.42 ug/l
RT: 4.71 min Scan# 677
Delta R.T. -0.00 min
Lab File: VX002572.D
Acq: 15 Jun 2018 01:10

Tgt Ion:	43	Resp:	7588
Ion	Ratio	Lower	Upper
43	100		
72	24.1	18.5	27.7





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 726

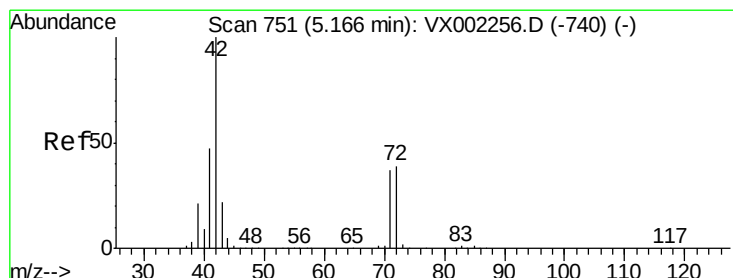
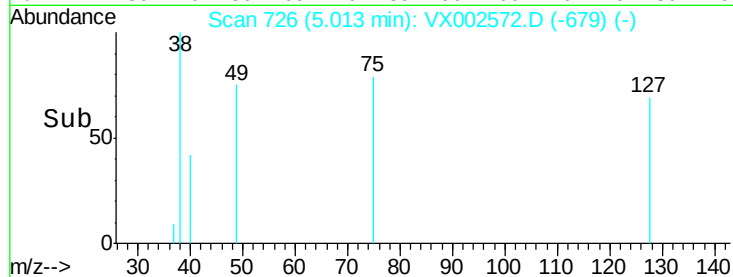
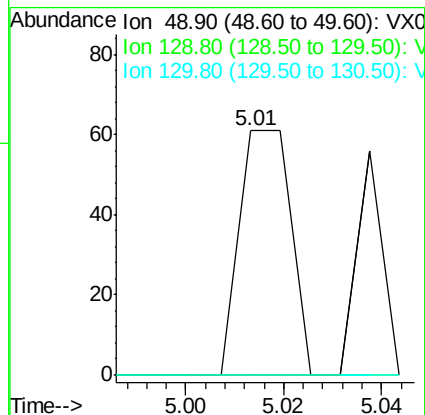
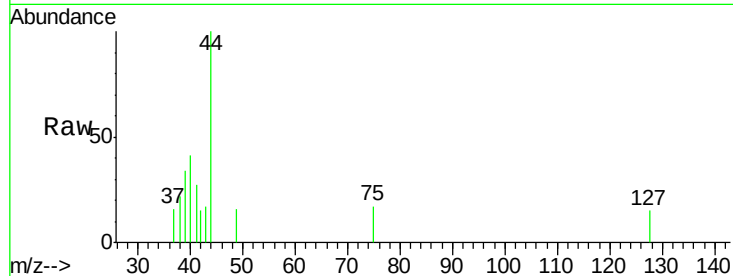
Delta R.T. -0.01 min

Lab File: VX002572.D

Acq: 15 Jun 2018 01:10

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 49 Resp: 45
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 61.2 91.8#



#29

Tetrahydrofuran

Concen: 1.13 ug/l

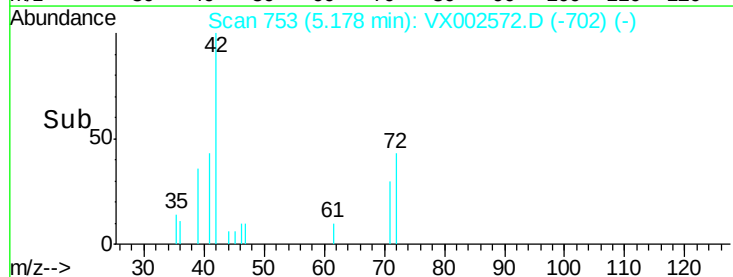
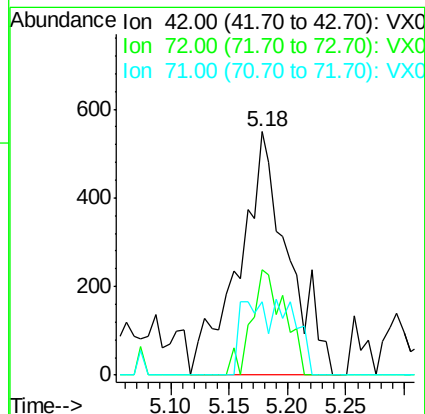
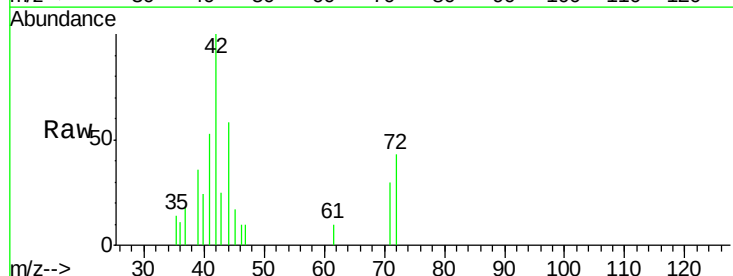
RT: 5.18 min Scan# 753

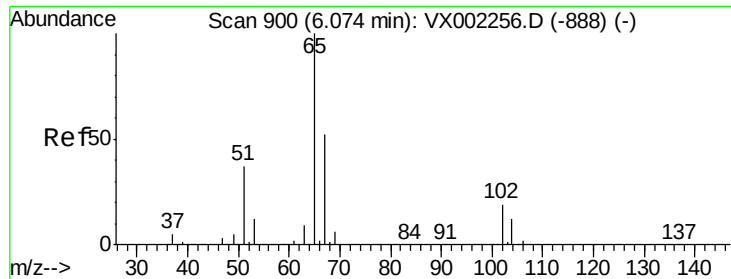
Delta R.T. 0.01 min

Lab File: VX002572.D

Acq: 15 Jun 2018 01:10

Tgt Ion: 42 Resp: 1614
Ion Ratio Lower Upper
42 100
72 29.3 32.0 48.0#
71 16.5 30.1 45.1#

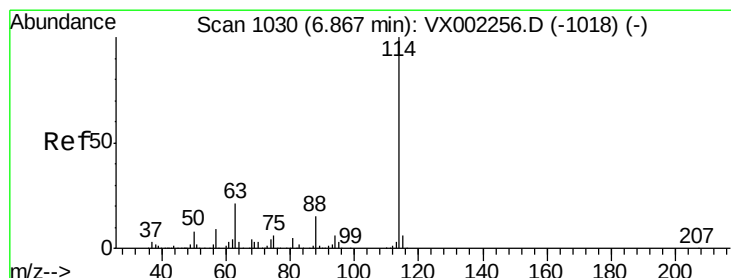
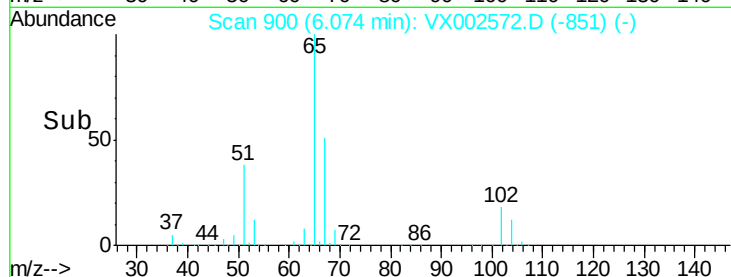
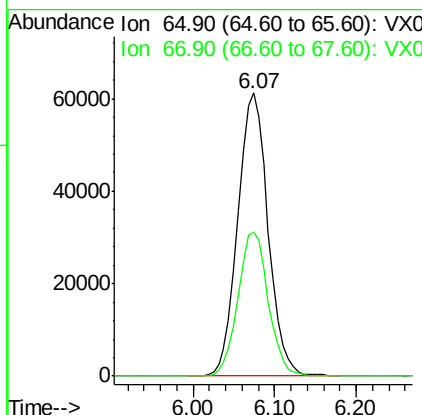
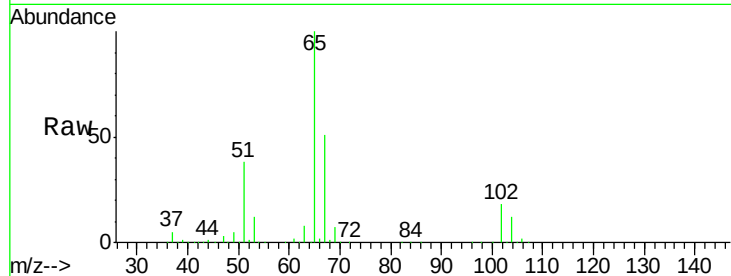




#33
 1,2-Dichloroethane-d4
 Concen: 48.57 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002572.D
 Acq: 15 Jun 2018 01:10

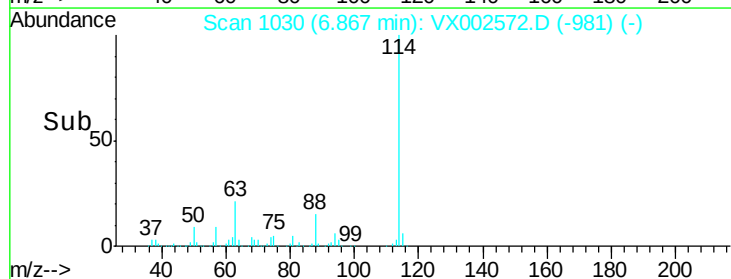
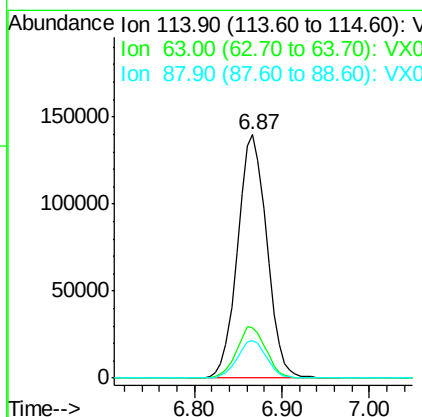
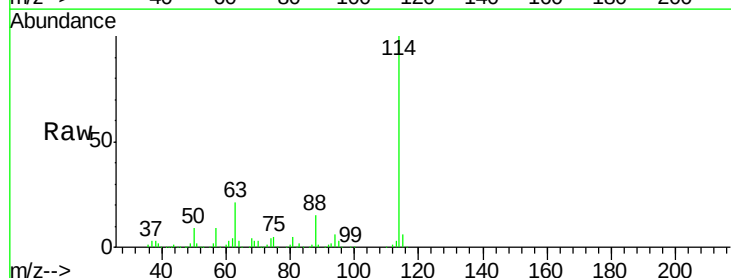
Instrument :
 MSVOA_X
 ClientSampleId :

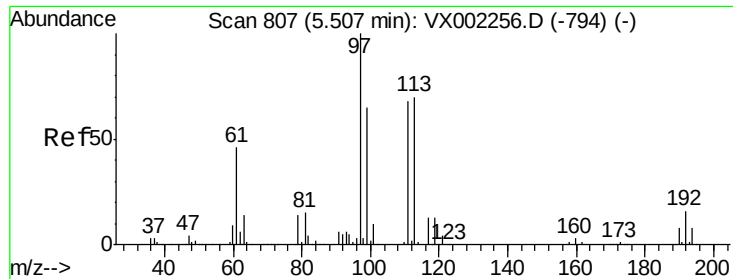
Tot Ion: 65 Resp: 157422
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002572.D
 Acq: 15 Jun 2018 01:10

Tgt Ion: 114 Resp: 324681
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 41.4
 88 15.2 0.0 30.0





#35

Dibromofluoromethane

Concen: 46.03 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002572.D

Acq: 15 Jun 2018 01:10

Instrument :
MSVOA_X
ClientSampled :

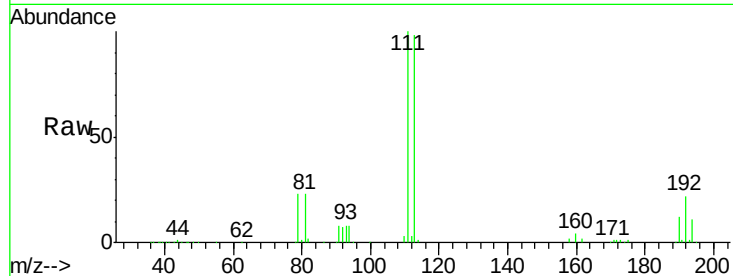
Tot Ion:113 Resp: 117521

Ion Ratio Lower Upper

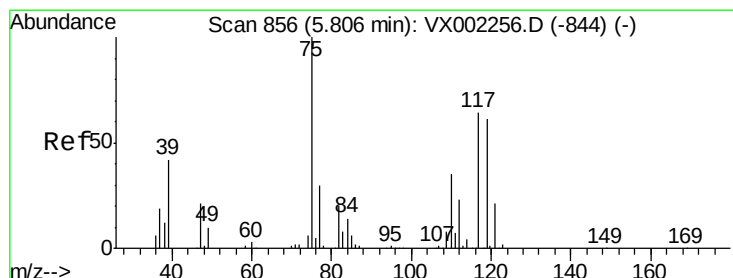
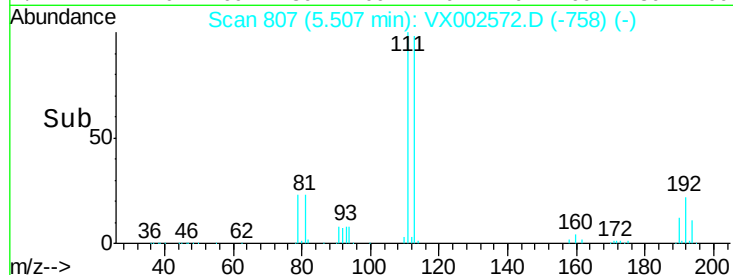
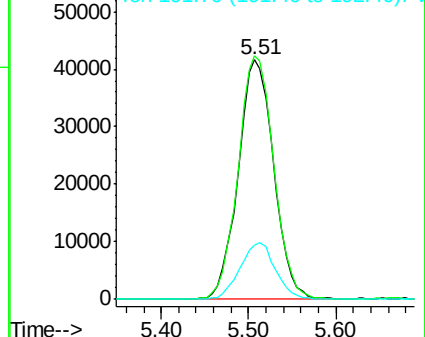
113 100

111 102.1 81.4 122.0

192 23.6 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: 4.65 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX002572.D

Acq: 15 Jun 2018 01:10

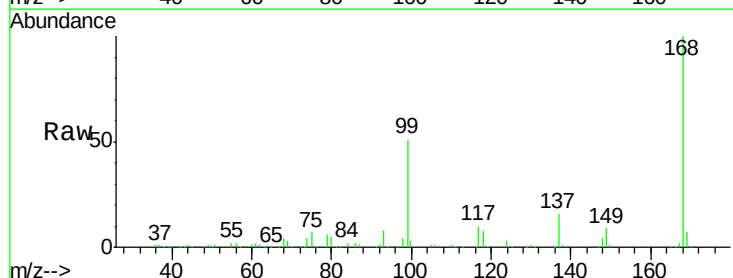
Tgt Ion: 75 Resp: 15889

Ion Ratio Lower Upper

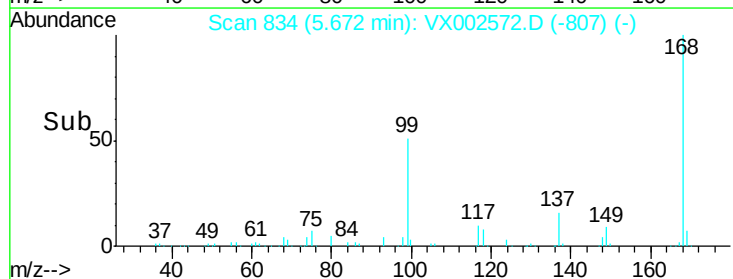
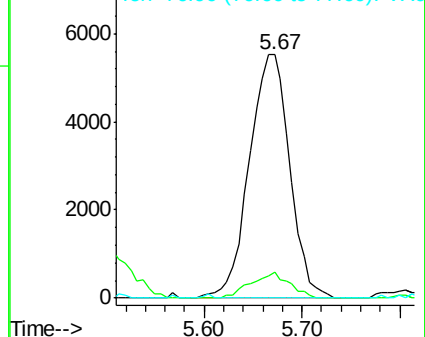
75 100

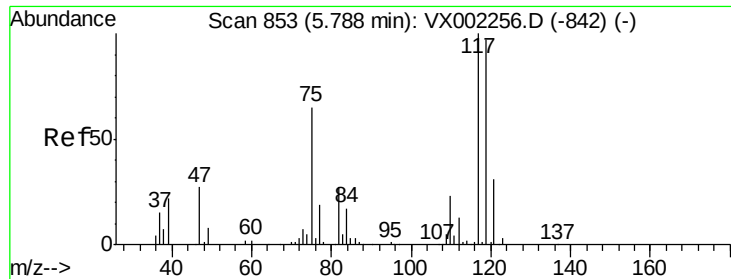
110 10.2 18.1 54.4#

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

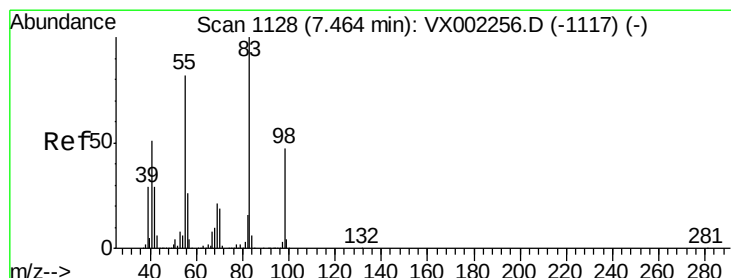
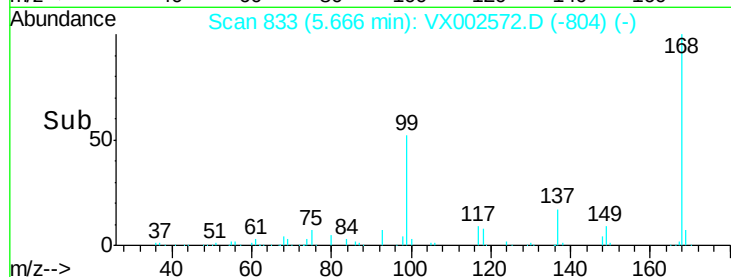
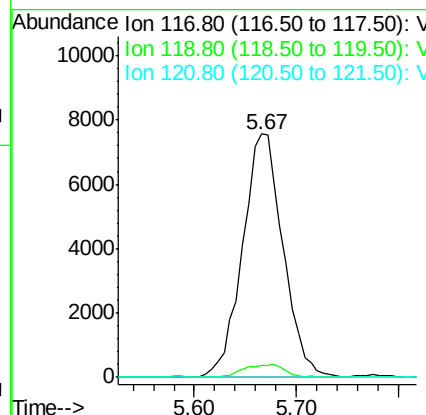
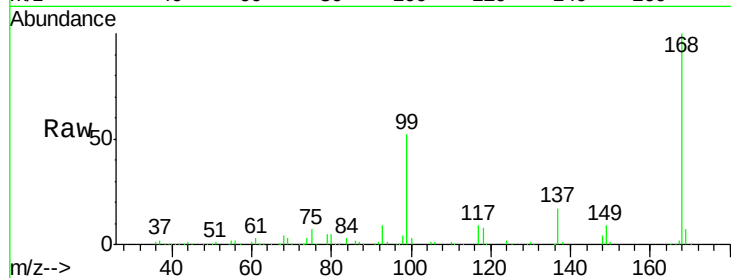




#38
Carbon Tetrachloride
Concen: 5.85 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX002572.D
Acq: 15 Jun 2018 01:10

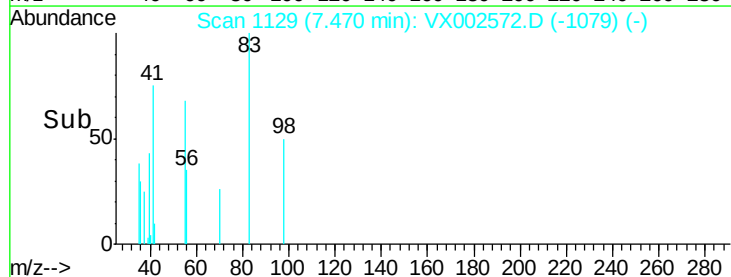
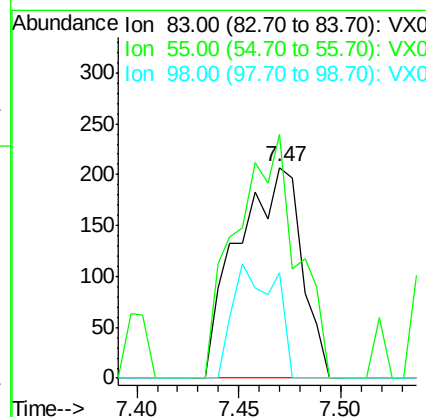
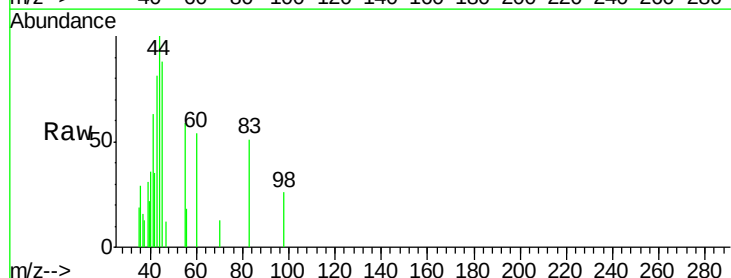
Instrument :
MSVOA_X
ClientSampled :

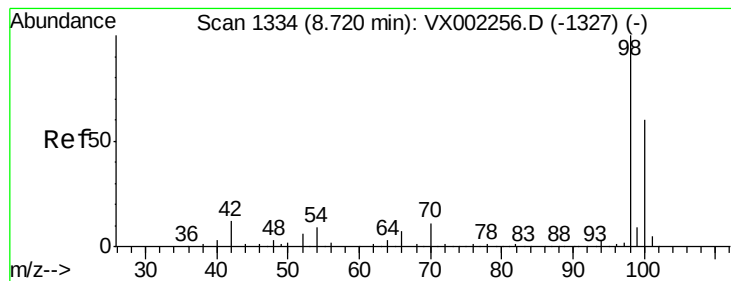
Tot Ion:117 Resp: 20898
Ion Ratio Lower Upper
117 100
119 5.1 77.4 116.0#
121 0.0 24.4 36.6#



#39
Methylcyclohexane
Concen: 0.37 ug/l
RT: 7.47 min Scan# 1129
Delta R.T. 0.01 min
Lab File: VX002572.D
Acq: 15 Jun 2018 01:10

Tgt Ion: 83 Resp: 451
Ion Ratio Lower Upper
83 100
55 115.5 65.4 98.0#
98 50.2 37.4 56.0





#50

Toluene-d8

Concen: 48.06 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002572.D

Acq: 15 Jun 2018 01:10

Instrument :

MSVOA_X

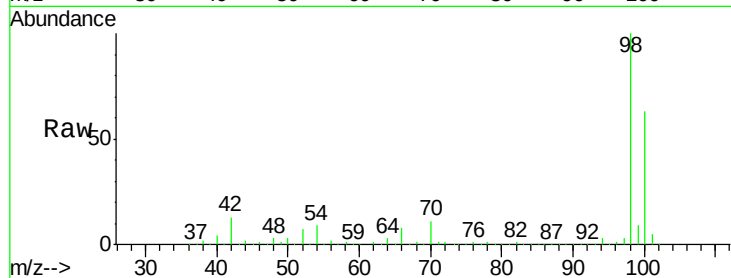
ClientSampleId :

Tot Ion: 98 Resp: 470346

Ion Ratio Lower Upper

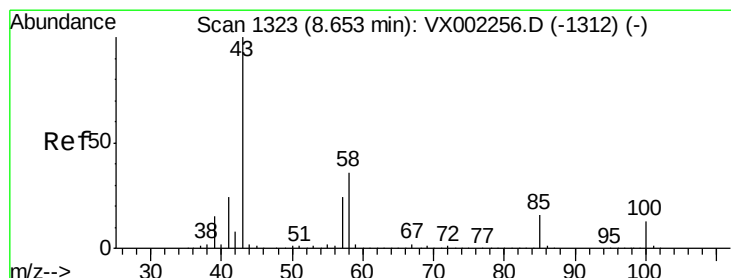
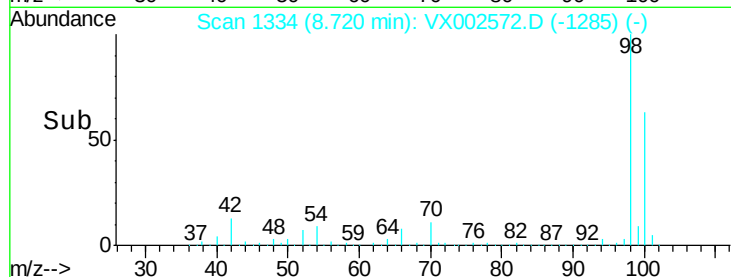
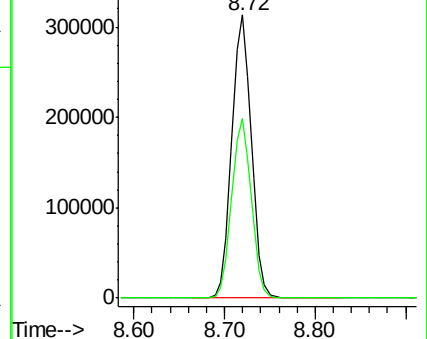
98 100

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): VX0



#51

4-Methyl-2-Pentanone

Concen: 1.37 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. 0.01 min

Lab File: VX002572.D

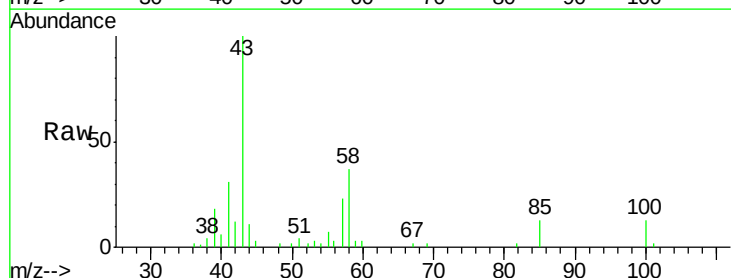
Acq: 15 Jun 2018 01:10

Tgt Ion: 43 Resp: 5951

Ion Ratio Lower Upper

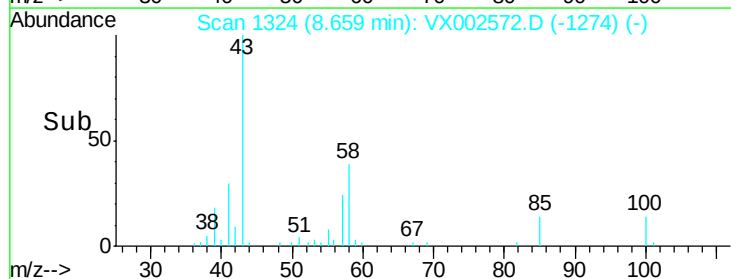
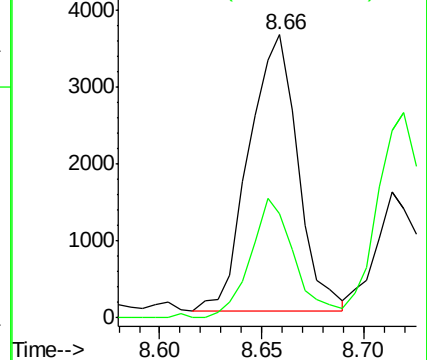
43 100

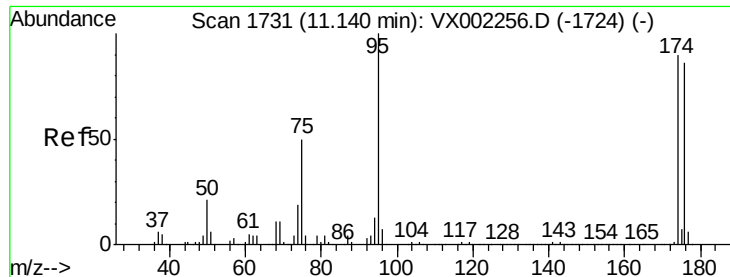
58 39.7 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 45.05 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002572.D

Acq: 15 Jun 2018 01:10

Instrument :

MSVOA_X

ClientSampleId :

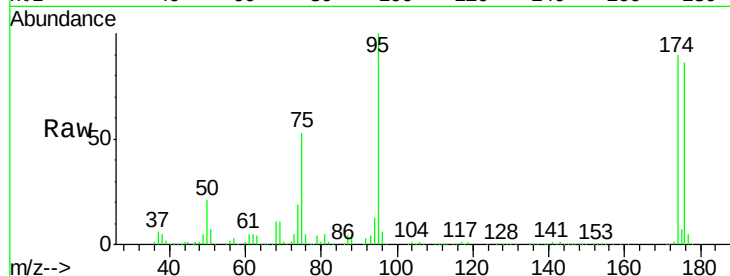
Tot Ion: 95 Resp: 169999

Ion Ratio Lower Upper

95 100

174 94.9 0.0 187.4

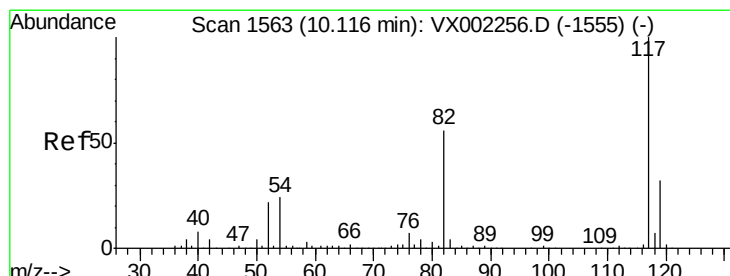
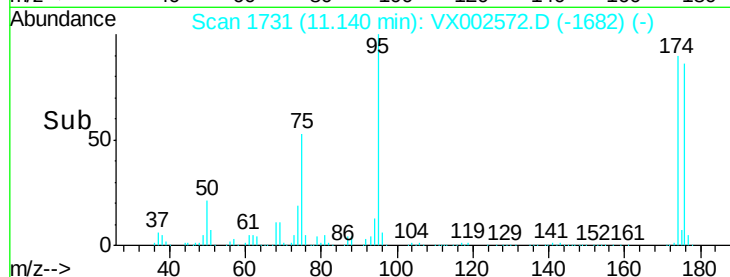
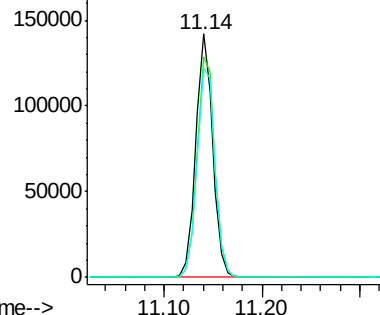
176 91.3 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002256.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX002256.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX002256.D (-1724) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002572.D

Acq: 15 Jun 2018 01:10

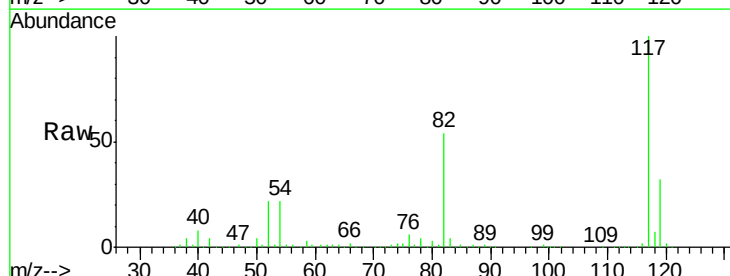
Tgt Ion: 117 Resp: 309674

Ion Ratio Lower Upper

117 100

82 54.5 45.0 67.4

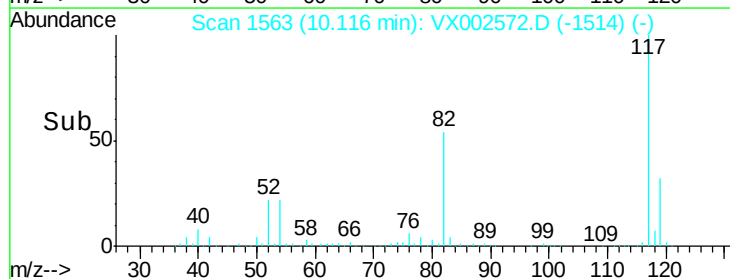
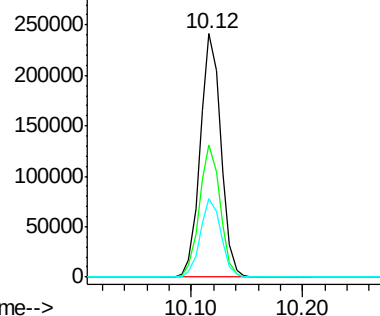
119 32.3 25.8 38.6

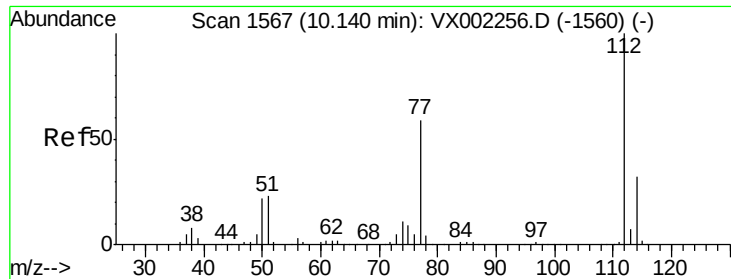


Abundance Ion 116.90 (116.60 to 117.60): VX002256.D (-1555) (-)

Ion 82.00 (81.70 to 82.70): VX002256.D (-1555) (-)

Ion 118.90 (118.60 to 119.60): VX002256.D (-1555) (-)





#65

Chlorobenzene

Concen: 0.40 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VX002572.D

Acq: 15 Jun 2018 01:10

Instrument :

MSVOA_X

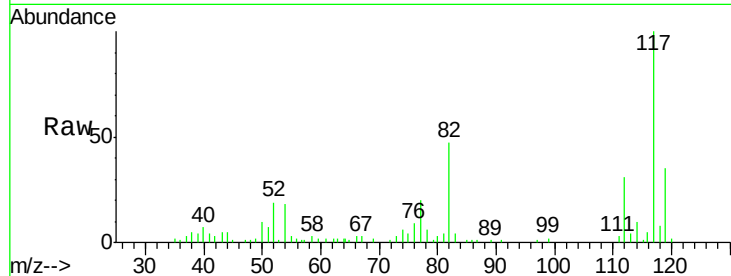
ClientSampled :

Tot Ion:112 Resp: 3087

Ion Ratio Lower Upper

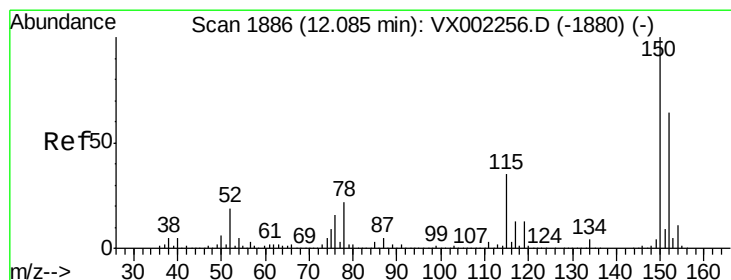
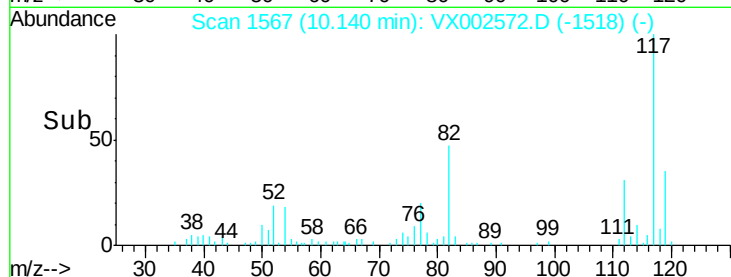
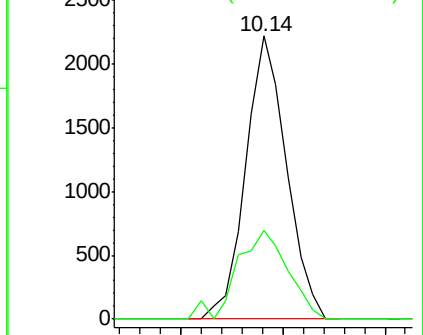
112 100

114 31.4 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: VX002572.D

Acq: 15 Jun 2018 01:10

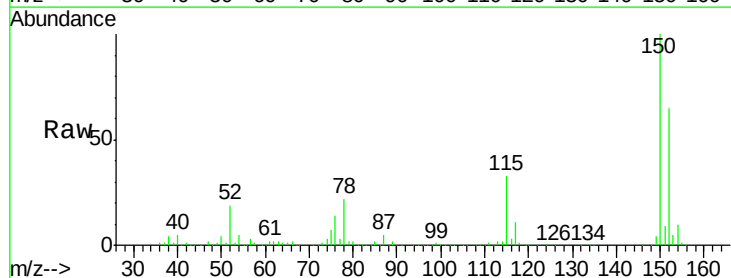
Tgt Ion:152 Resp: 179223

Ion Ratio Lower Upper

152 100

115 55.2 40.1 120.2

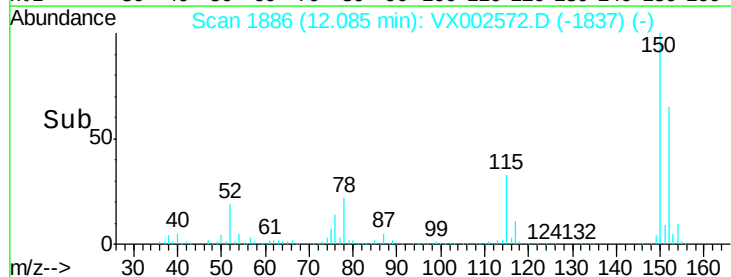
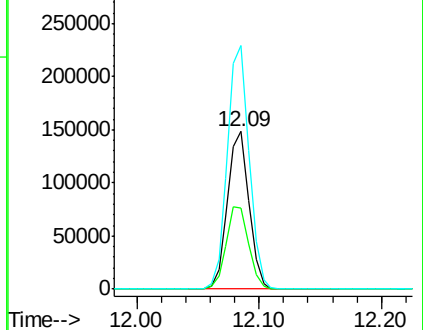
150 156.5 0.0 347.2

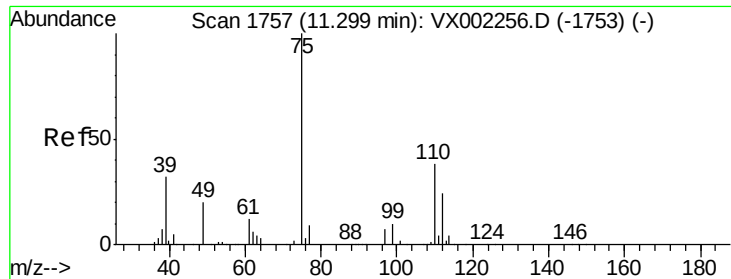


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.51 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002572.D

Acq: 15 Jun 2018 01:10

Instrument :

MSVOA_X

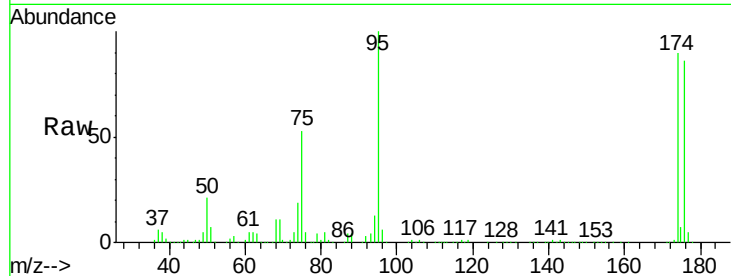
ClientSampled :

Tot Ion: 75 Resp: 92437

Ion Ratio Lower Upper

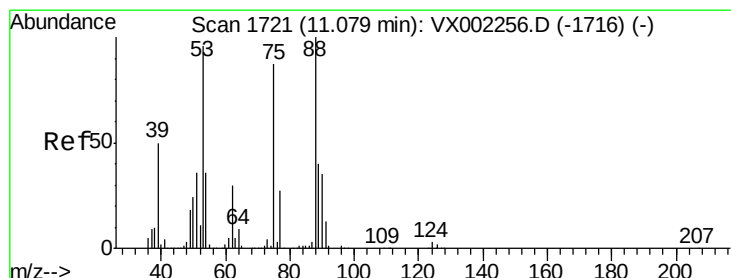
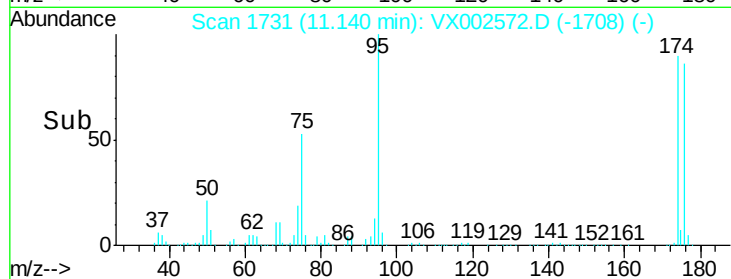
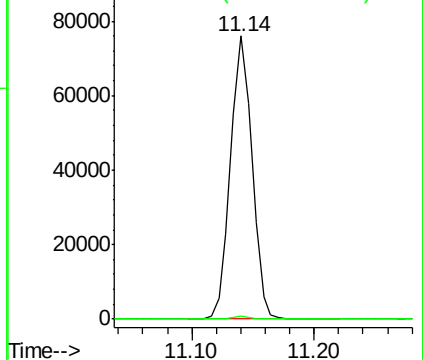
75 100

77 1.1 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: 82.39 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002572.D

Acq: 15 Jun 2018 01:10

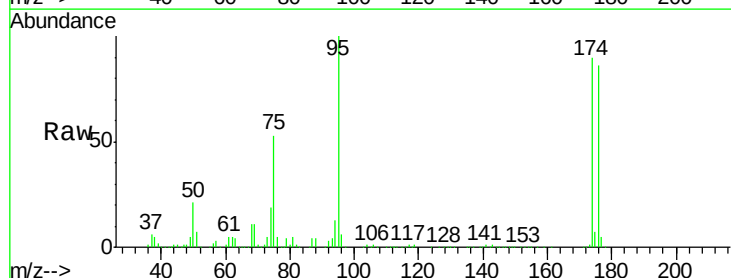
Tgt Ion: 75 Resp: 92437

Ion Ratio Lower Upper

75 100

53 0.0 86.8 130.2#

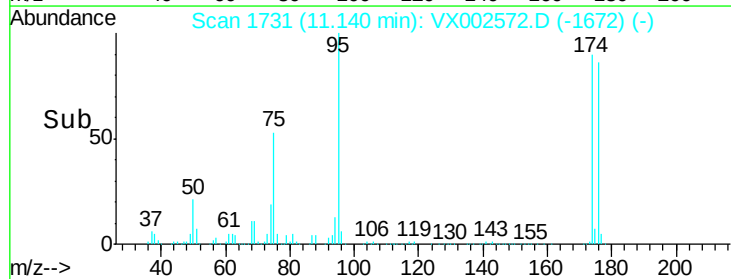
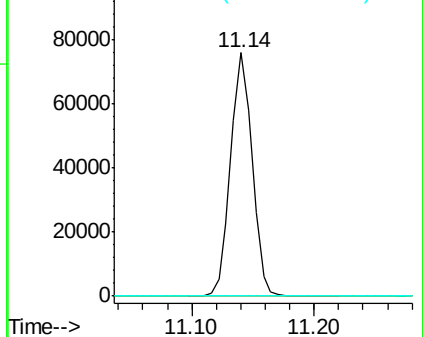
89 0.0 38.2 57.2#

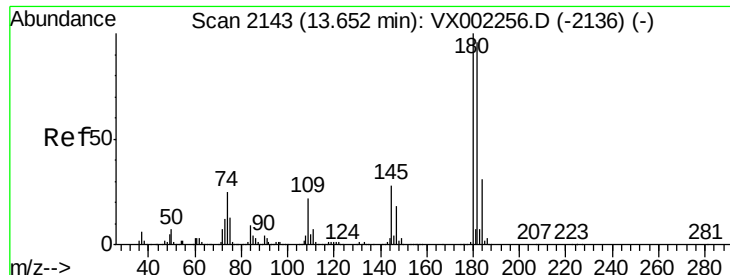


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#93

1,2,4-Trichlorobenzene

Concen: 0.21 ug/l

RT: 13.65 min Scan# 2143

Delta R.T. -0.00 min

Lab File: VX002572.D

Acq: 15 Jun 2018 01:10

Instrument :

MSVOA_X

ClientSampleId :

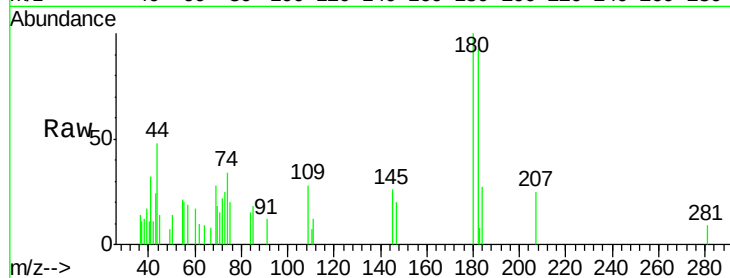
Tot Ion:180 Resp: 965

Ion Ratio Lower Upper

180 100

182 97.0 47.7 143.1

145 25.6 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

