

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX062018\
 Data File : VX002776.D
 Acq On : 21 Jun 2018 07:24
 Operator : JC/MD
 Sample : PB110408ZHE#15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 21 08:01:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	219435	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	310239	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	291349	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	163777	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	150451	45.12	ug/l	0.00
Spiked Amount			Recovery	=	90.24%	
35) Dibromofluoromethane	5.51	113	120198	48.55	ug/l	0.00
Spiked Amount			Recovery	=	97.10%	
50) Toluene-d8	8.72	98	442824	47.10	ug/l	0.00
Spiked Amount			Recovery	=	94.20%	
62) 4-Bromofluorobenzene	11.14	95	153898	43.20	ug/l	0.00
Spiked Amount			Recovery	=	86.40%	

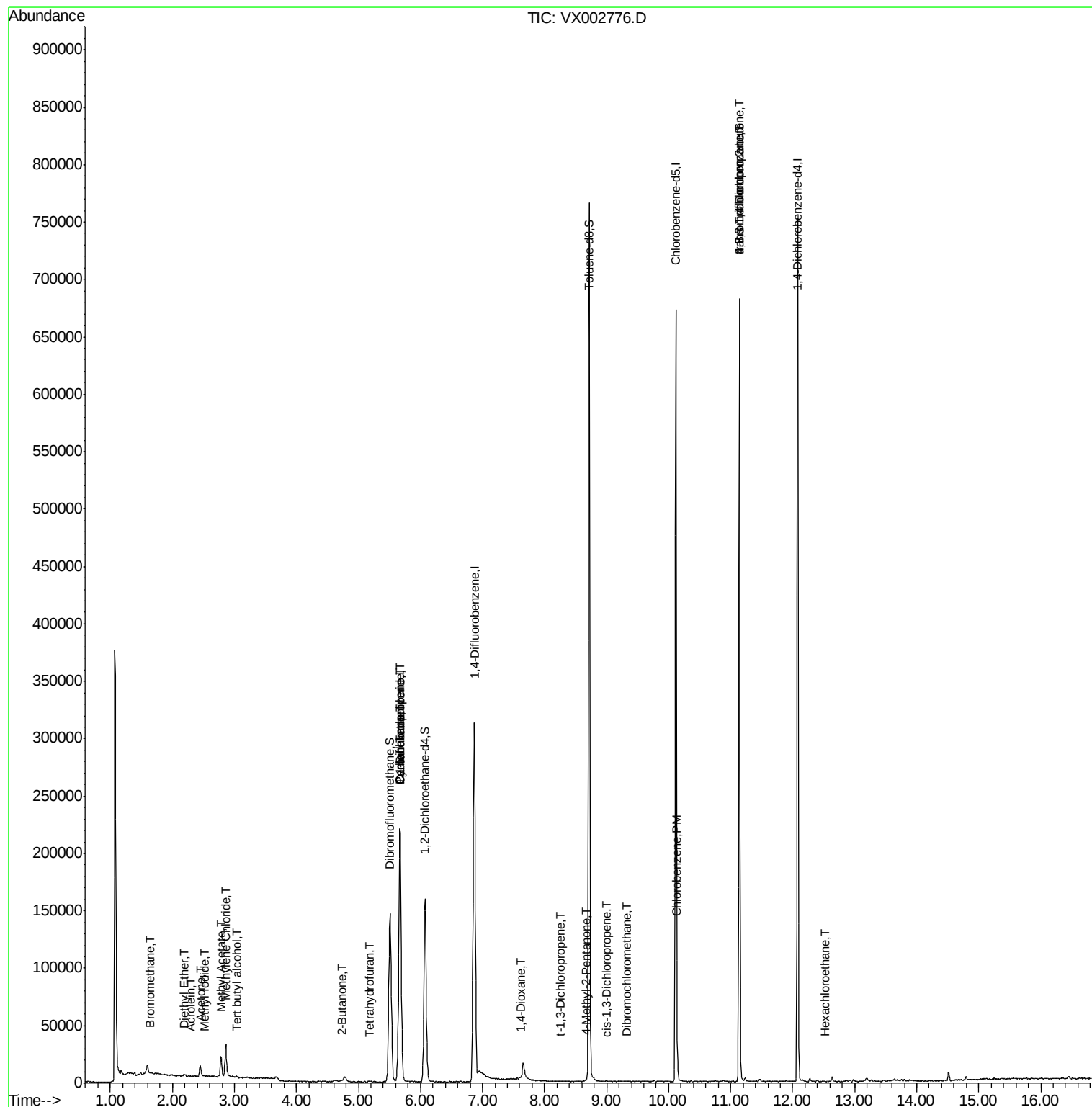
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	508	0.29	ug/l #	73
8) Diethyl Ether	2.19	74	746	0.42	ug/l	87
10) Methyl Iodide	2.52	142	576	5.33	ug/l #	85
11) Tert butyl alcohol	3.03	59	642	0.93	ug/l #	57
13) Acrolein	2.30	56	200	7.47	ug/l #	76
16) Acetone	2.45	43	11157	7.58	ug/l	94
18) Methyl Acetate	2.78	43	22222	5.67	ug/l	99
20) Methylene Chloride	2.86	84	12245	4.06	ug/l	95
25) 2-Butanone	4.72	43	1397	0.72	ug/l	92
29) Tetrahydrofuran	5.18	42	609	0.48	ug/l #	87
31) Cyclohexane	5.67	56	4661	1.18	ug/l #	11
36) 1,1-Dichloropropene	5.67	75	14974	4.54	ug/l #	51
38) Carbon Tetrachloride	5.67	117	20203	6.16	ug/l #	17
49) 1,4-Dioxane	7.62	88	22	0.37	ug/l #	52
51) 4-Methyl-2-Pentanone	8.66	43	1039	0.26	ug/l #	67
53) t-1,3-Dichloropropene	8.25	75	20	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	9.01	75	20	3.22	ug/l #	23
60) Dibromochloromethane	9.32	129	25	3.77	ug/l #	11
65) Chlorobenzene	10.14	112	3407	0.48	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	81733	26.45	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	81733	81.73	ug/l #	7
90) Hexachloroethane	12.52	117	19	2.64	ug/l #	1

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:37:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002776.D

Acq: 21 Jun 2018 07:24

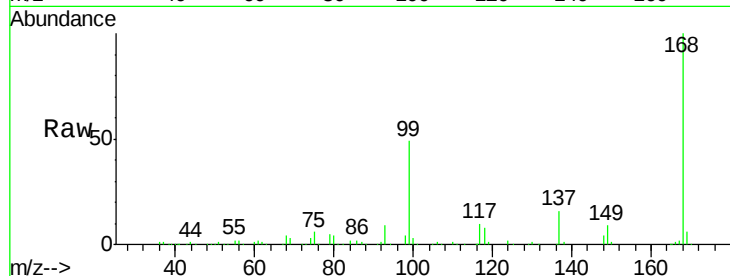
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 219435

Ion Ratio Lower Upper

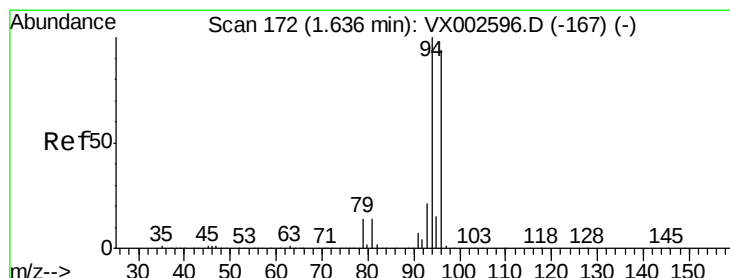
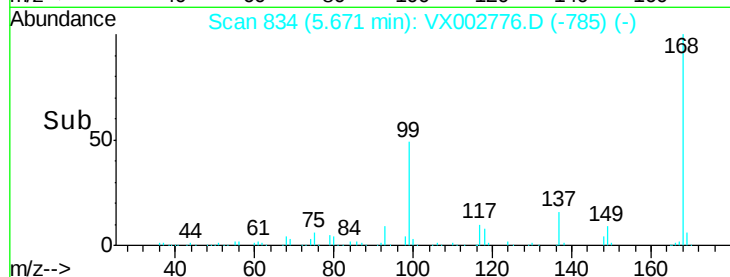
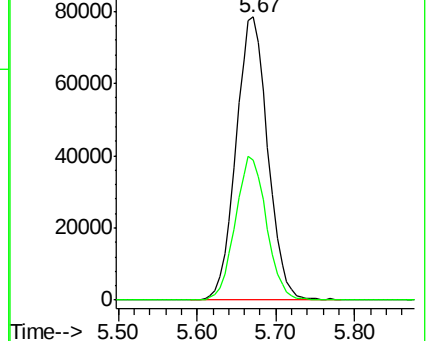
168 100

99 49.3 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.29 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002776.D

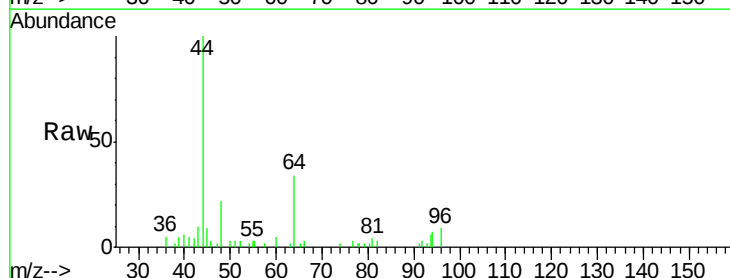
Acq: 21 Jun 2018 07:24

Tgt Ion: 94 Resp: 508

Ion Ratio Lower Upper

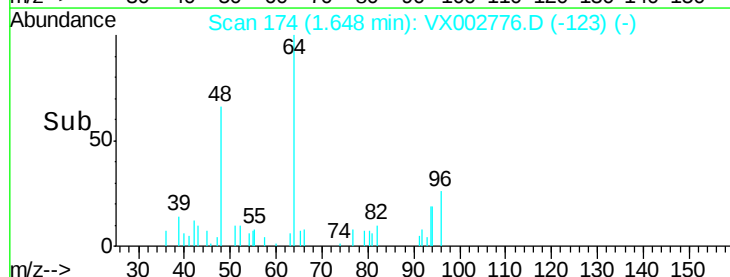
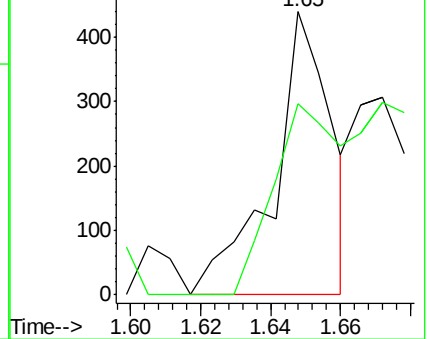
94 100

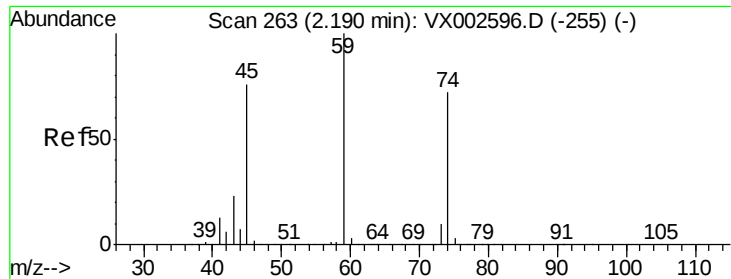
96 67.7 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#8

Diethyl Ether

Concen: 0.42 ug/l

RT: 2.19 min Scan# 263

Delta R.T. -0.00 min

Lab File: VX002776.D

Acq: 21 Jun 2018 07:24

Instrument :

MSVOA_X

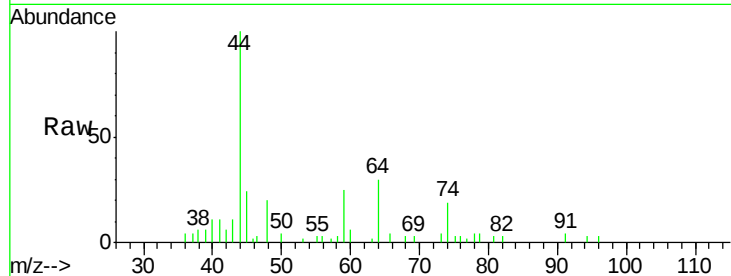
ClientSampleId :

Tot Ion: 74 Resp: 746

Ion Ratio Lower Upper

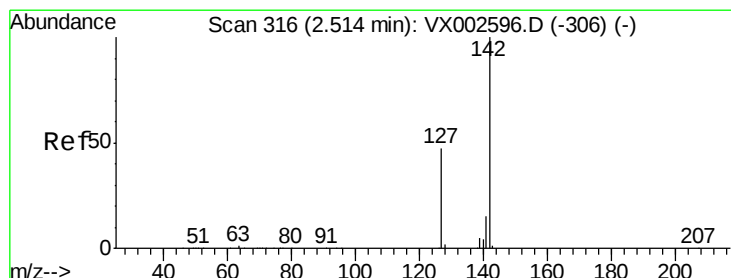
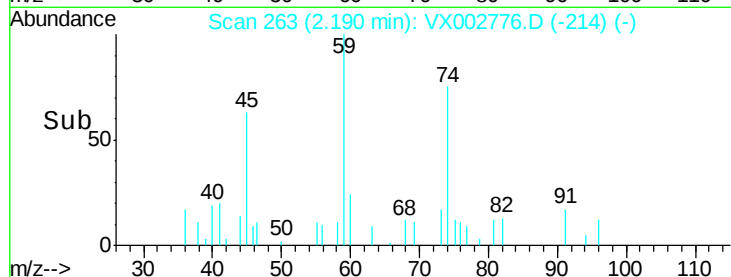
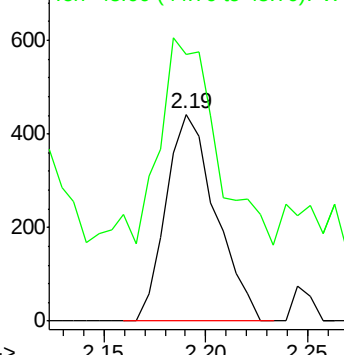
74 100

45 120.0 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#10

Methyl Iodide

Concen: 5.33 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002776.D

Acq: 21 Jun 2018 07:24

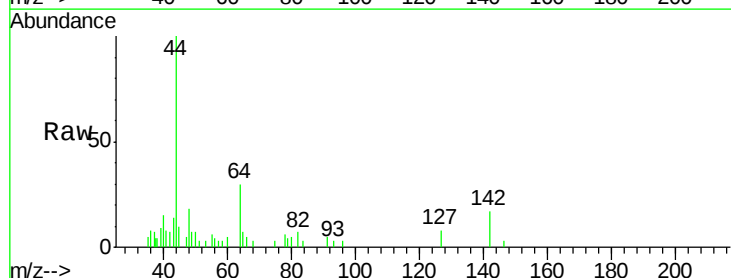
Tgt Ion: 142 Resp: 576

Ion Ratio Lower Upper

142 100

127 54.7 36.6 55.0

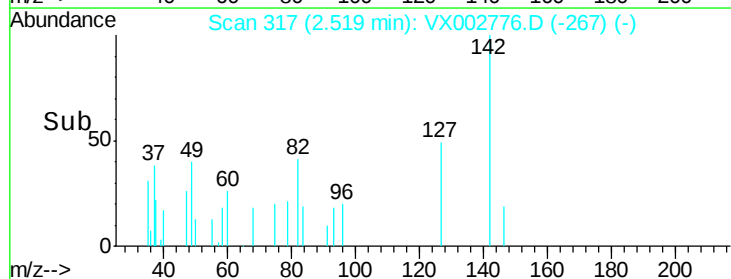
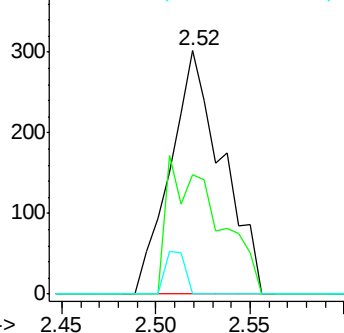
141 6.6 11.3 16.9#

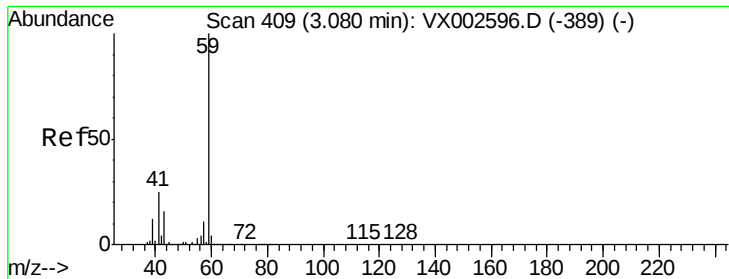


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



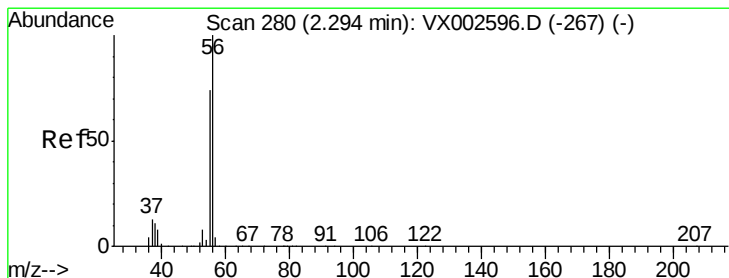
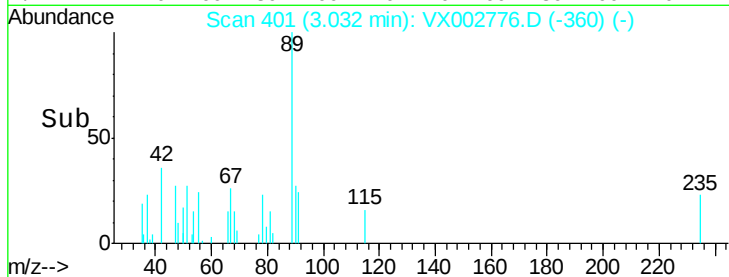
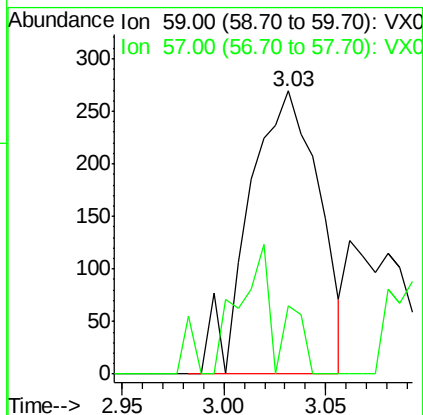
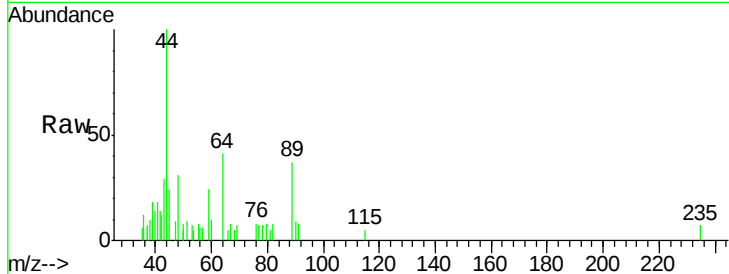


#11

Tert butvl alcohol
 Concen: 0.93 ug/l
 RT: 3.03 min Scan# 401
 Delta R.T. -0.05 min
 Lab File: VX002776.D
 Acq: 21 Jun 2018 07:24

Instrument :
 MSVOA_X
 ClientSampled :

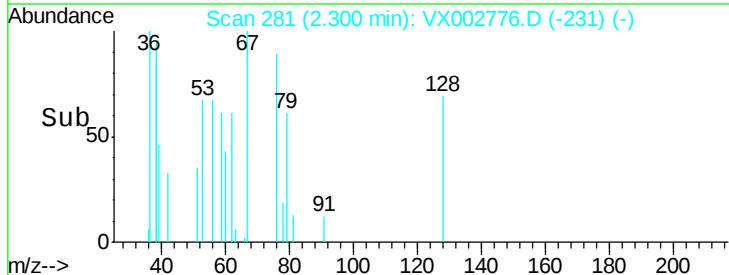
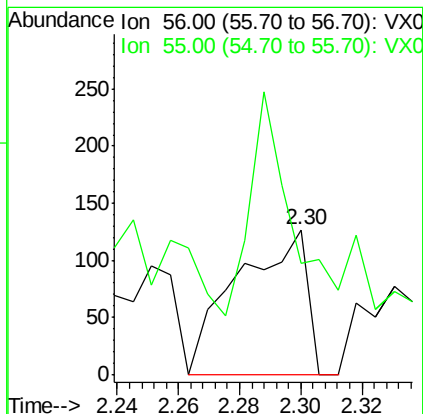
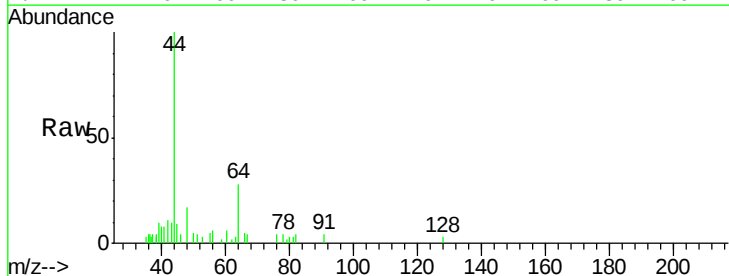
Tot Ion: 59 Resp: 642
 Ion Ratio Lower Upper
 59 100
 57 26.2 8.2 12.2#

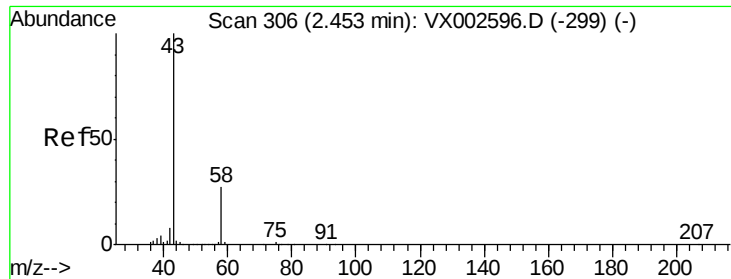


#13

Acrolein
 Concen: 7.47 ug/l
 RT: 2.30 min Scan# 281
 Delta R.T. 0.01 min
 Lab File: VX002776.D
 Acq: 21 Jun 2018 07:24

Tgt Ion: 56 Resp: 200
 Ion Ratio Lower Upper
 56 100
 55 91.0 57.0 85.4#

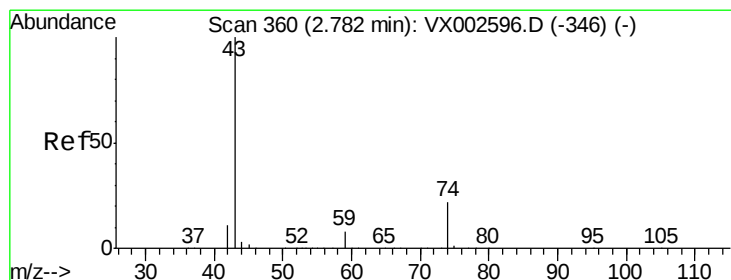
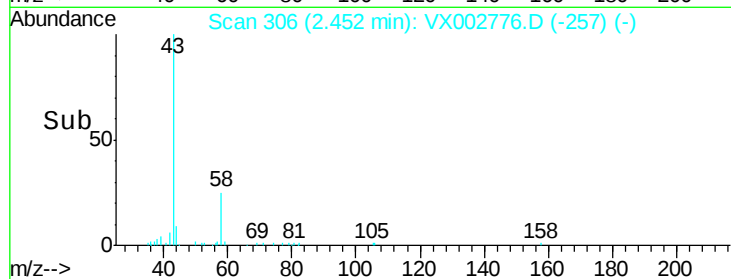
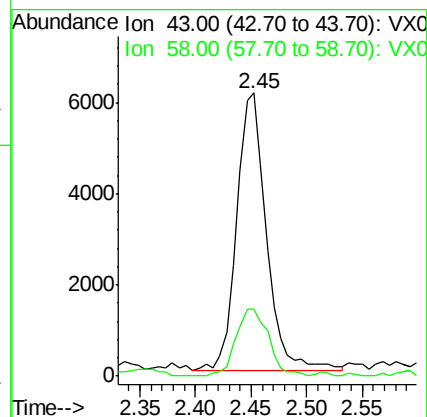
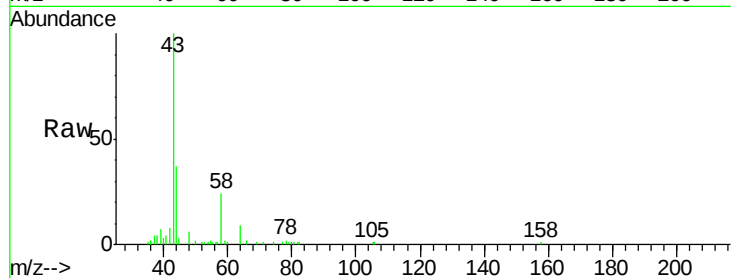




#16
Acetone
Concen: 7.58 ug/l
RT: 2.45 min Scan# 306
Delta R.T. -0.00 min
Lab File: VX002776.D
Acq: 21 Jun 2018 07:24

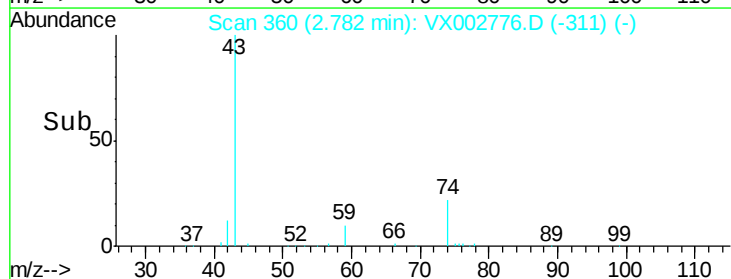
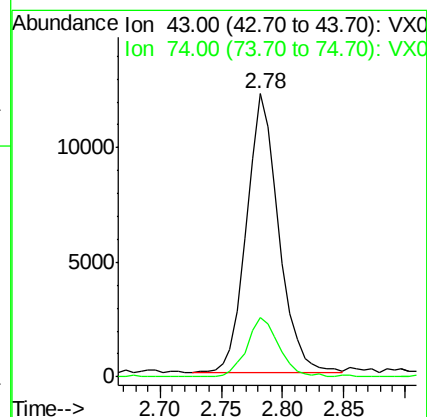
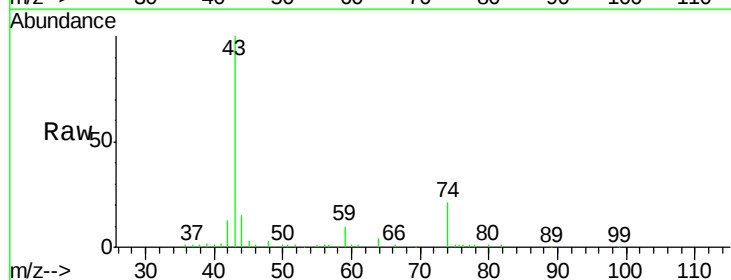
Instrument :
MSVOA_X
ClientSampleId :

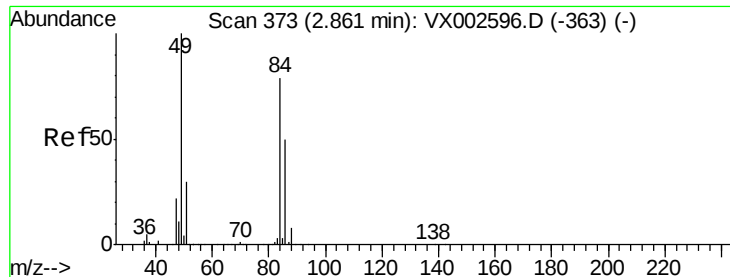
Tot Ion: 43 Resp: 11157
Ion Ratio Lower Upper
43 100
58 24.4 22.1 33.1



#18
Methyl Acetate
Concen: 5.67 ug/l
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX002776.D
Acq: 21 Jun 2018 07:24

Tgt Ion: 43 Resp: 22222
Ion Ratio Lower Upper
43 100
74 21.2 16.7 25.1





#20

Methylene Chloride

Concen: 4.06 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX002776.D

Acq: 21 Jun 2018 07:24

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 84 Resp: 12245

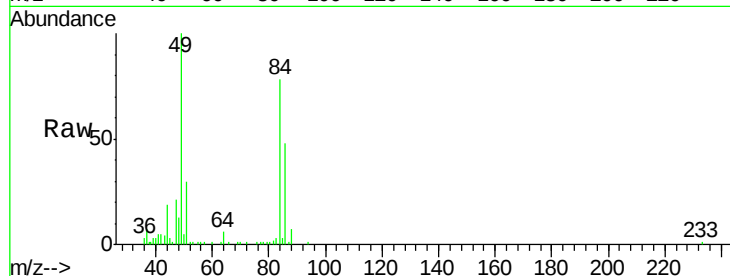
Ion	Ratio	Lower	Upper
84	100		
49	129.0	107.8	161.6
51	37.3	32.8	49.2
86	61.7	52.5	78.7

84 100

49 129.0 107.8 161.6

51 37.3 32.8 49.2

86 61.7 52.5 78.7

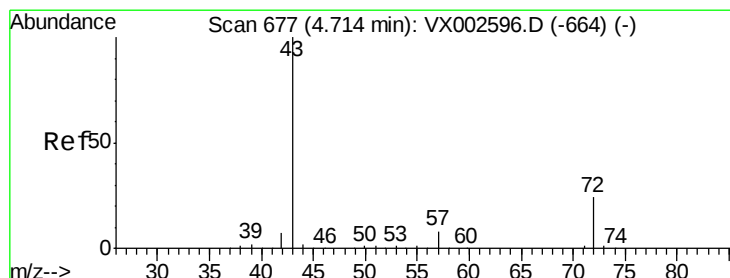
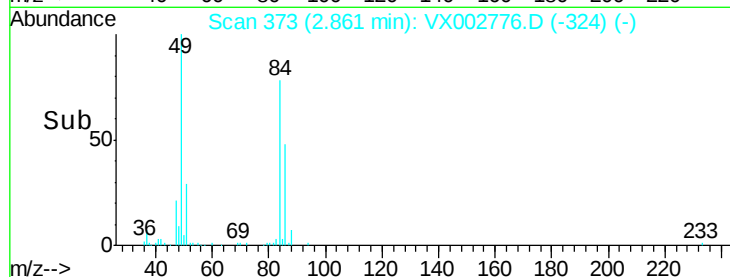
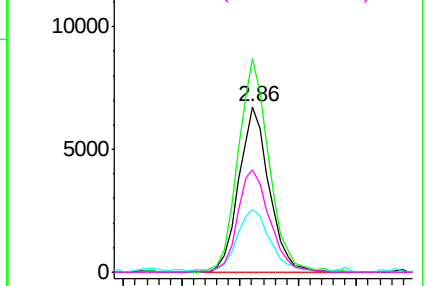


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 0.72 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX002776.D

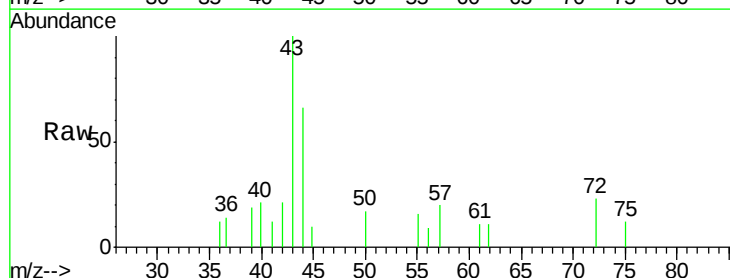
Acq: 21 Jun 2018 07:24

Tgt Ion: 43 Resp: 1397

Ion	Ratio	Lower	Upper
43	100		
72	26.9	18.5	27.7

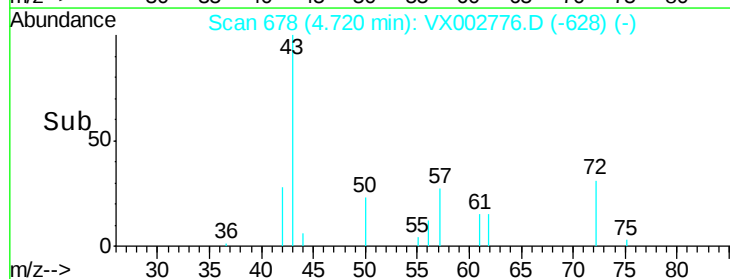
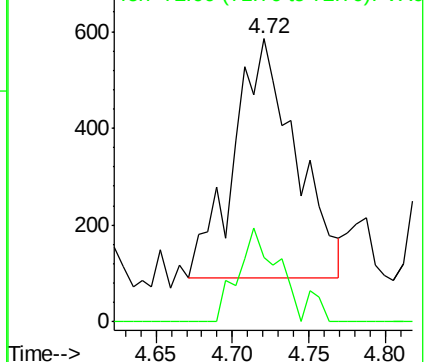
43 100

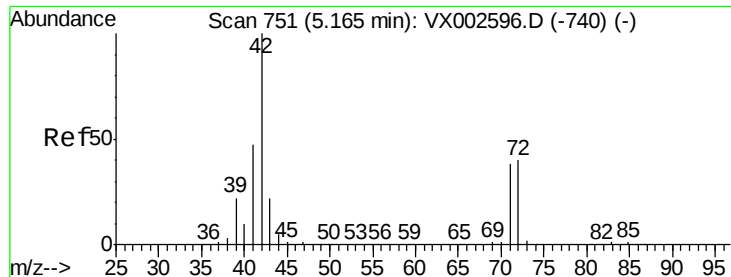
72 26.9 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

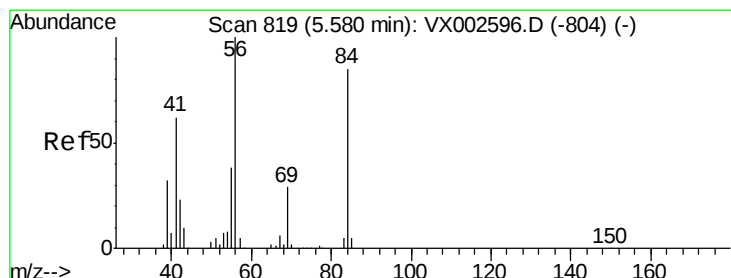
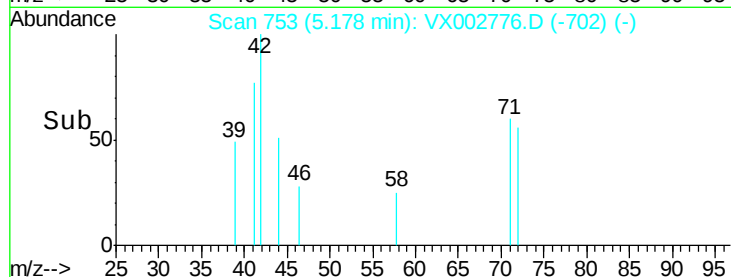
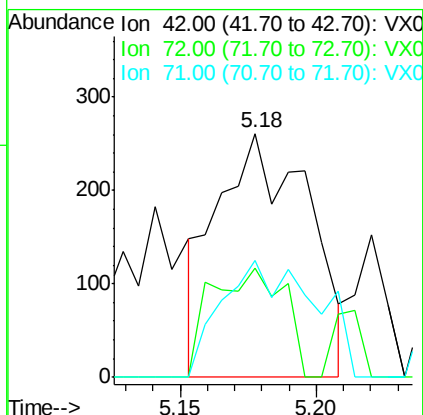
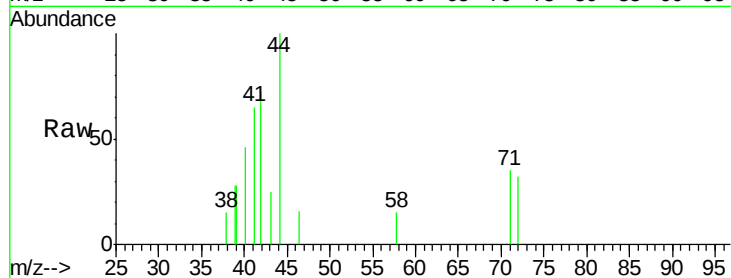




#29
Tetrahydrofuran
Concen: 0.48 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX002776.D
Acq: 21 Jun 2018 07:24

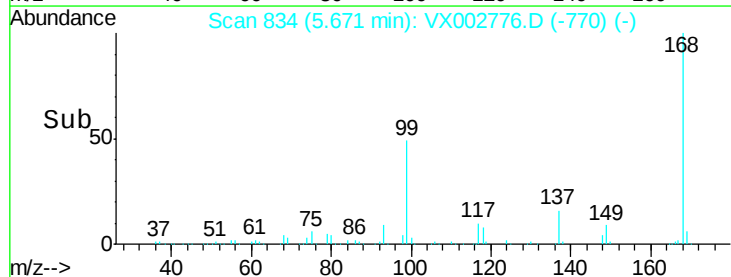
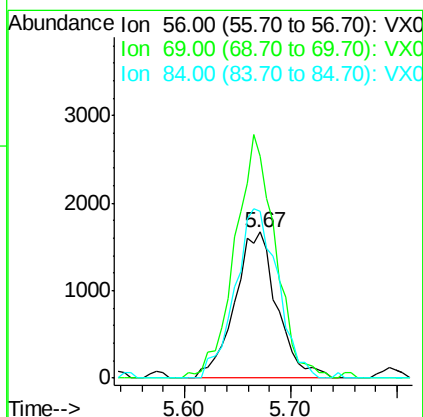
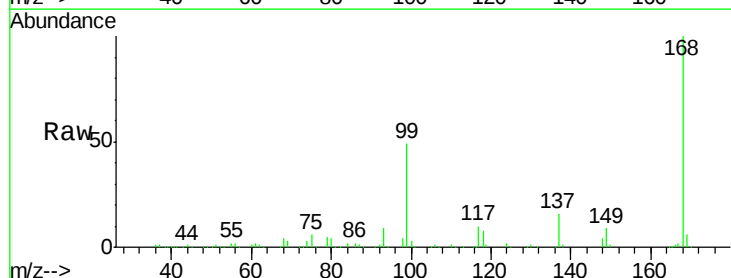
Instrument :
MSVOA_X
ClientSampled :

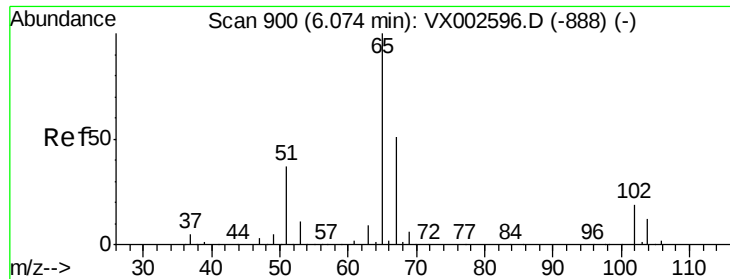
Tot Ion: 42 Resp: 609
Ion Ratio Lower Upper
42 100
72 35.5 32.0 48.0
71 48.6 30.1 45.1#



#31
Cyclohexane
Concen: 1.18 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.09 min
Lab File: VX002776.D
Acq: 21 Jun 2018 07:24

Tgt Ion: 56 Resp: 4661
Ion Ratio Lower Upper
56 100
69 151.8 23.7 35.5#
84 114.2 64.1 96.1#

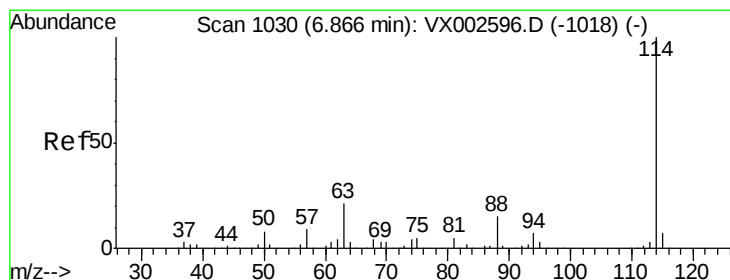
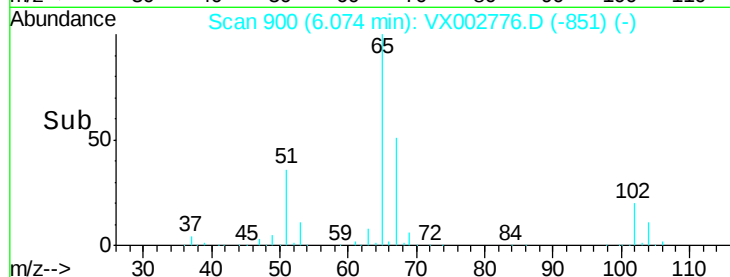
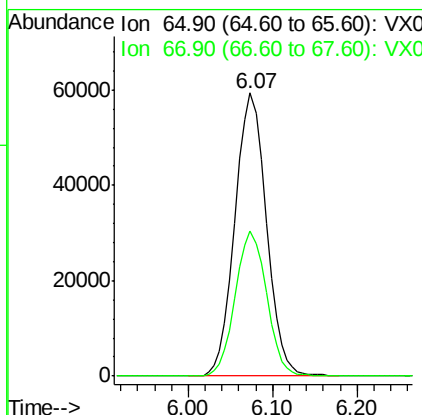
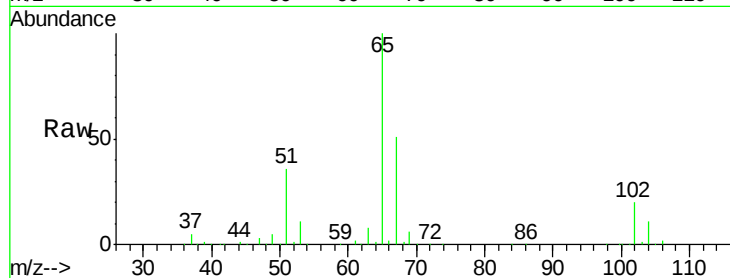




#33
 1,2-Dichloroethane-d4
 Concen: 45.12 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002776.D
 Acq: 21 Jun 2018 07:24

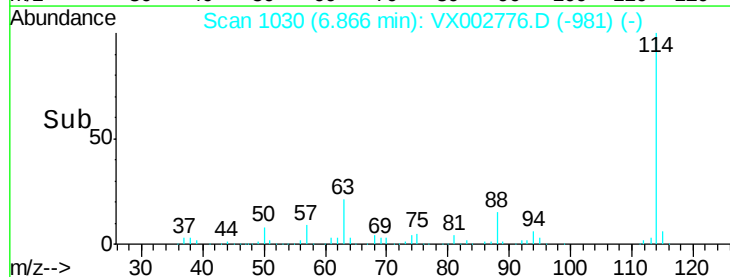
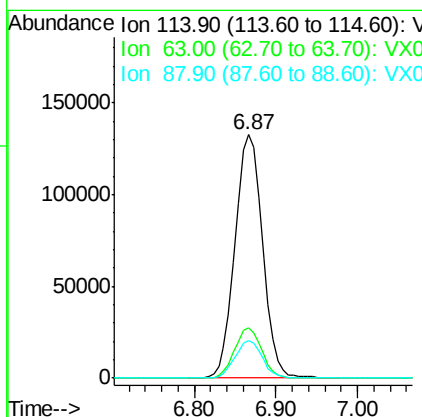
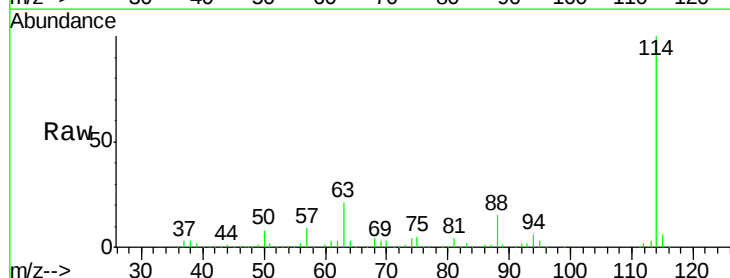
Instrument :
 MSVOA_X
 ClientSampleId :

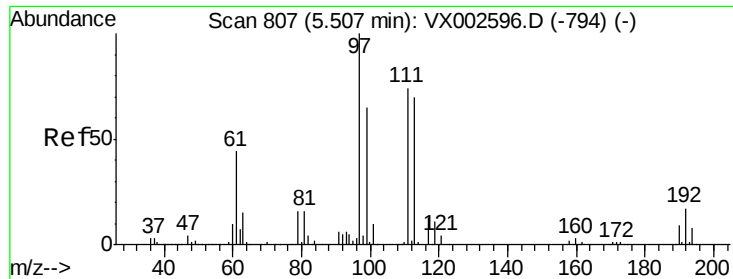
Tot Ion: 65 Resp: 150451
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002776.D
 Acq: 21 Jun 2018 07:24

Tgt Ion: 114 Resp: 310239
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 41.4
 88 15.2 0.0 30.0





#35

Dibromofluoromethane

Concen: 48.55 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002776.D

Acq: 21 Jun 2018 07:24

Instrument :

MSVOA_X

ClientSampleId :

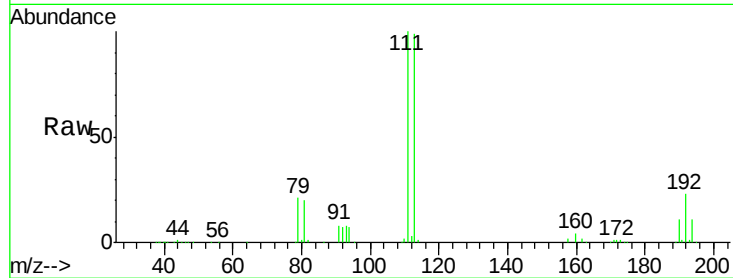
Tot Ion:113 Resp: 120198

Ion Ratio Lower Upper

113 100

111 102.5 81.4 122.0

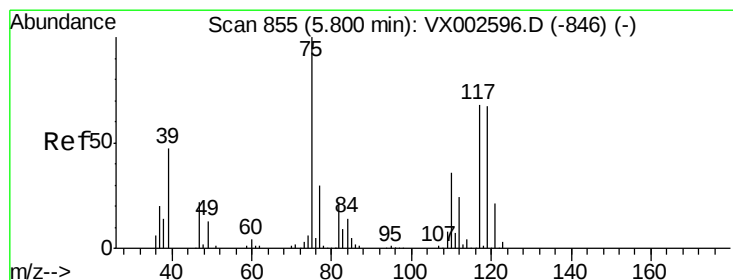
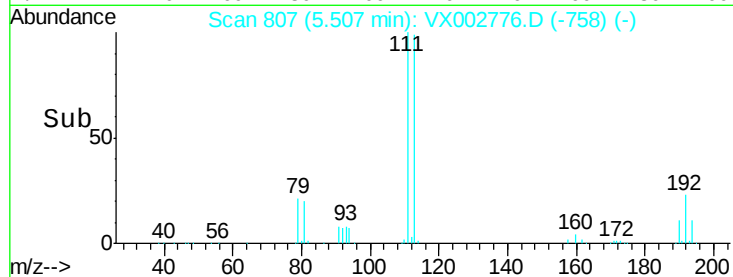
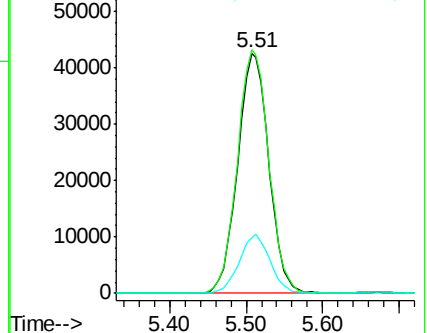
192 24.2 19.1 28.7



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: 4.54 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002776.D

Acq: 21 Jun 2018 07:24

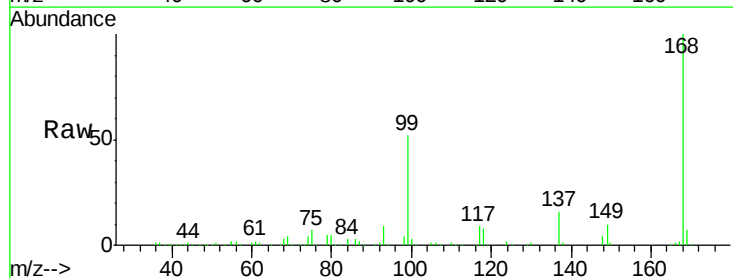
Tgt Ion: 75 Resp: 14974

Ion Ratio Lower Upper

75 100

110 11.0 18.1 54.4#

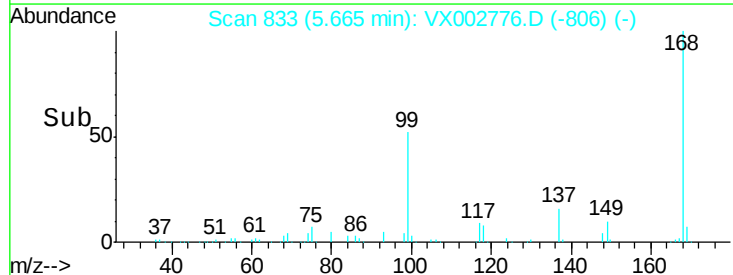
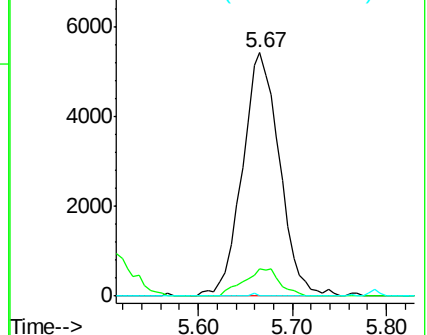
77 0.2 24.3 36.5#

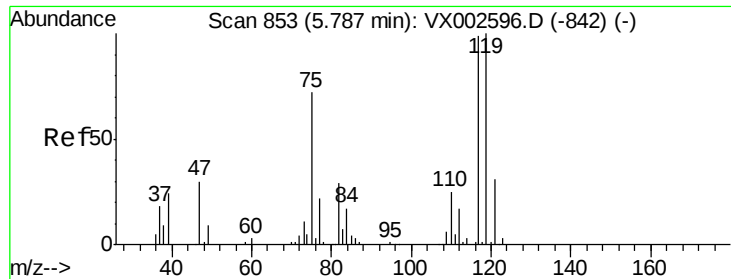


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.16 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002776.D

Acq: 21 Jun 2018 07:24

Instrument :

MSVOA_X

ClientSampled :

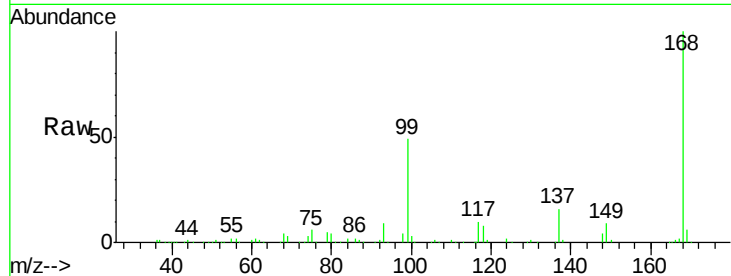
Tot Ion:117 Resp: 20203

Ion Ratio Lower Upper

117 100

119 6.3 77.4 116.0#

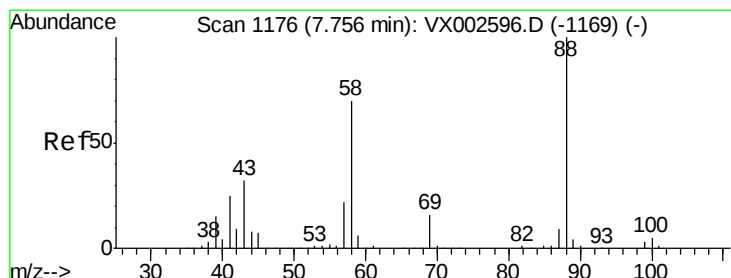
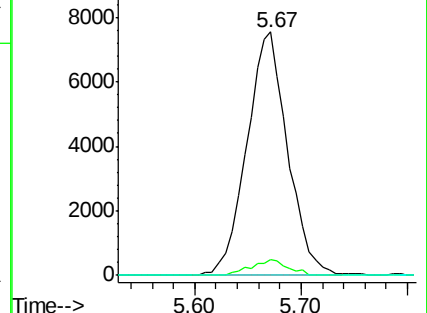
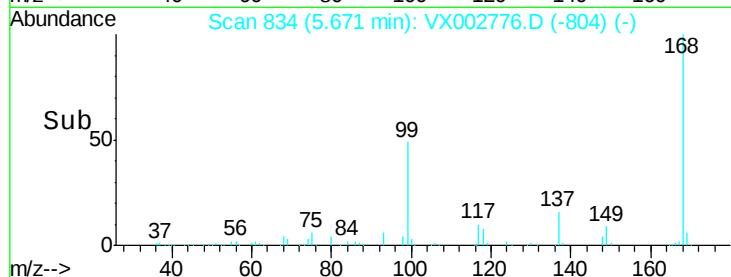
121 0.0 24.4 36.6#



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



#49

1,4-Dioxane

Concen: 0.37 ug/l

RT: 7.62 min Scan# 1153

Delta R.T. -0.14 min

Lab File: VX002776.D

Acq: 21 Jun 2018 07:24

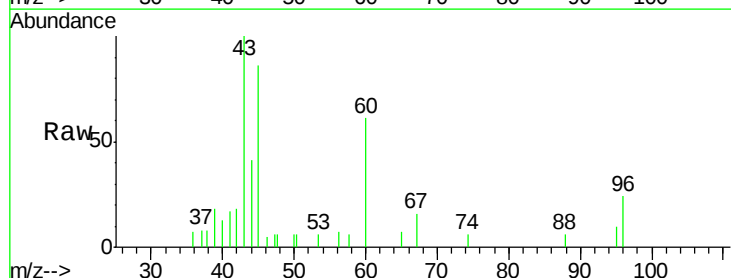
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 0.0 29.8 44.6#

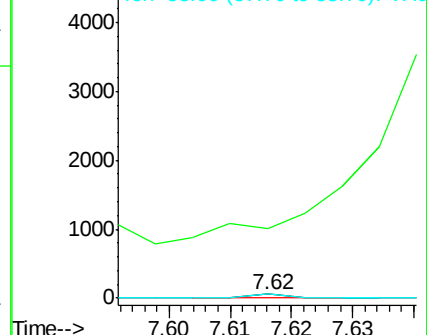
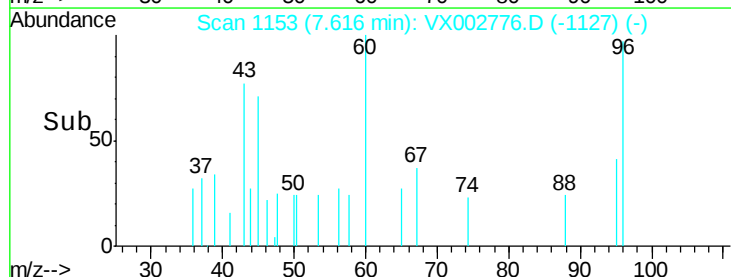
58 104.5 57.1 85.7#

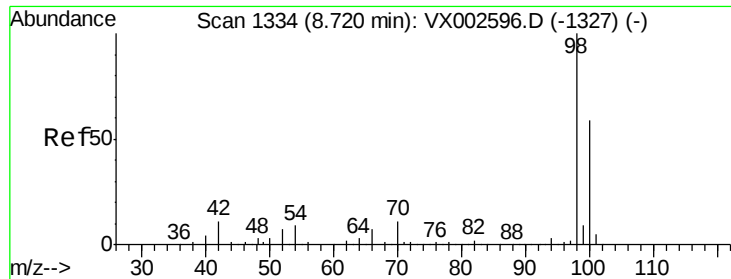


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

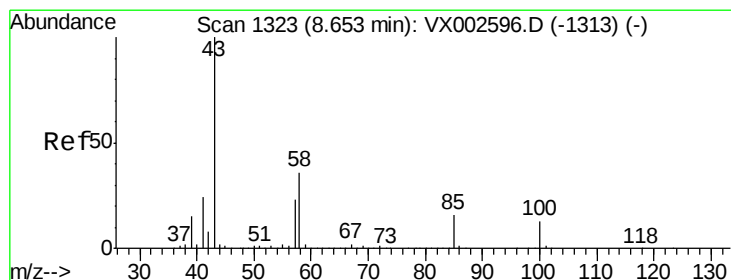
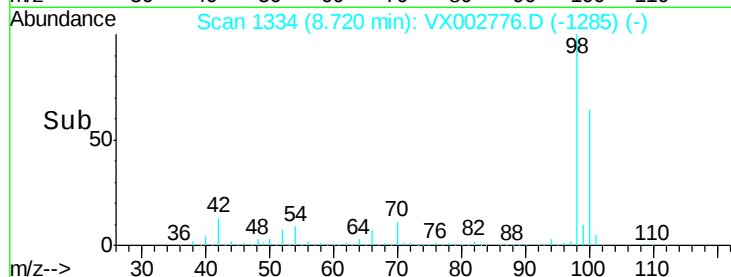
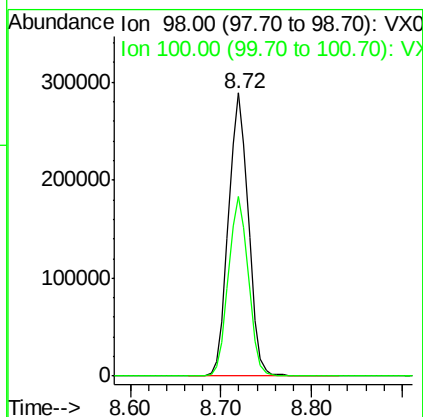
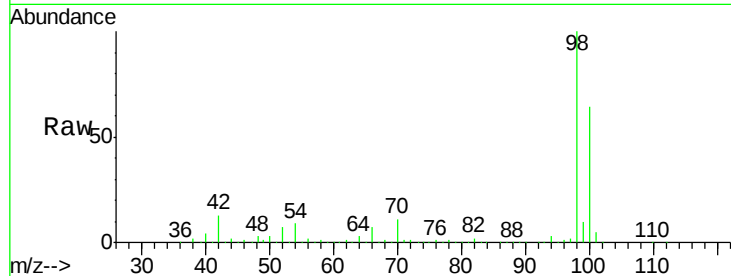




#50
Toluene-d8
Concen: 47.10 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002776.D
Acq: 21 Jun 2018 07:24

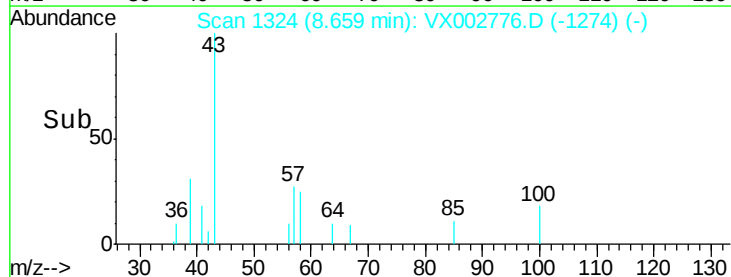
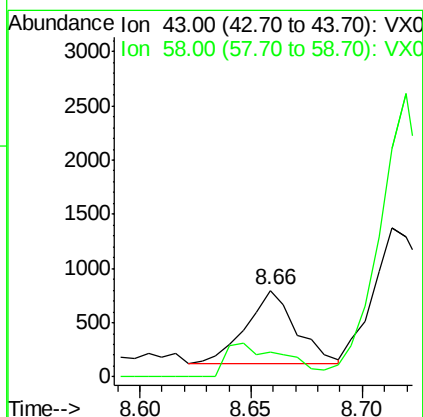
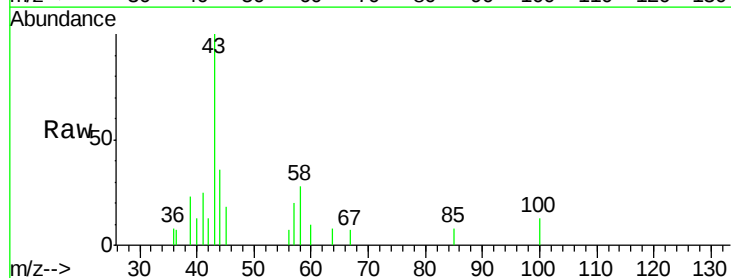
Instrument :
MSVOA_X
ClientSampleId :

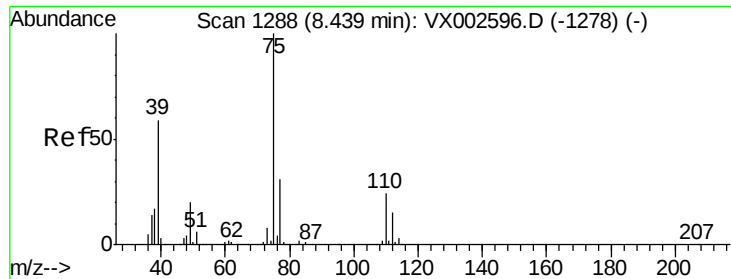
Tot Ion: 98 Resp: 442824
Ion Ratio Lower Upper
98 100
100 63.4 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.26 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. 0.01 min
Lab File: VX002776.D
Acq: 21 Jun 2018 07:24

Tgt Ion: 43 Resp: 1039
Ion Ratio Lower Upper
43 100
58 55.1 28.6 42.8#





#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.25 min Scan# 1257

Delta R.T. -0.19 min

Lab File: VX002776.D

Acq: 21 Jun 2018 07:24

Instrument :

MSVOA_X

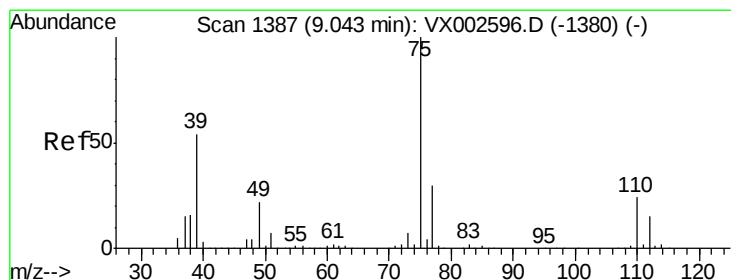
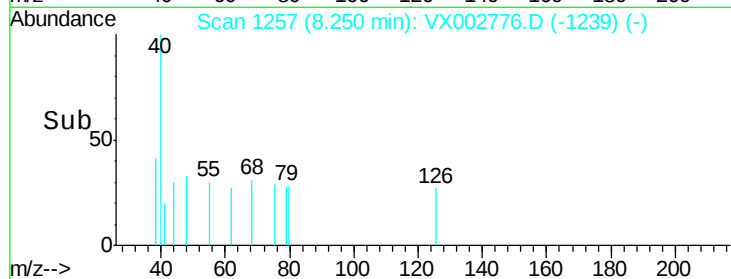
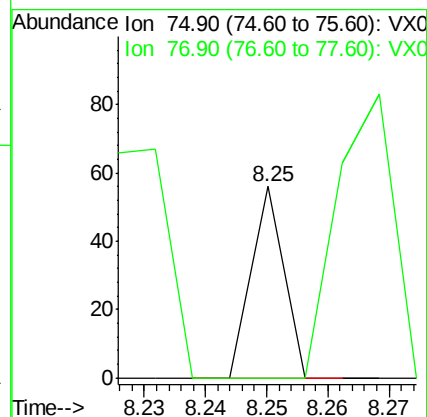
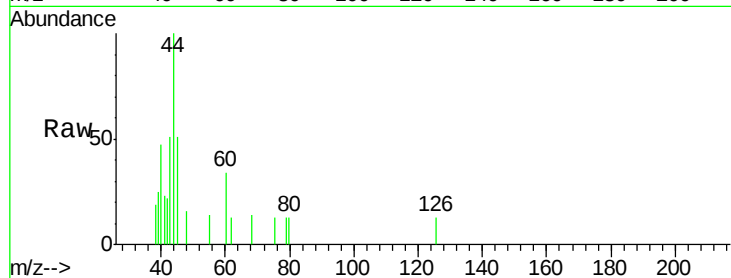
ClientSampleId :

Tot Ion: 75 Resp: 20

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#



#54

cis-1,3-Dichloropropene

Concen: 3.22 ug/l

RT: 9.01 min Scan# 1381

Delta R.T. -0.04 min

Lab File: VX002776.D

Acq: 21 Jun 2018 07:24

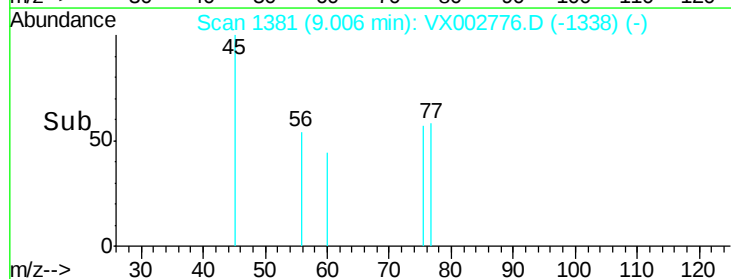
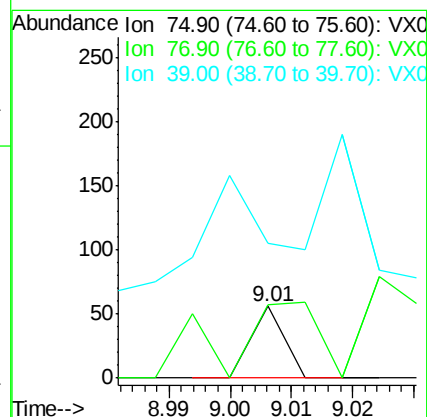
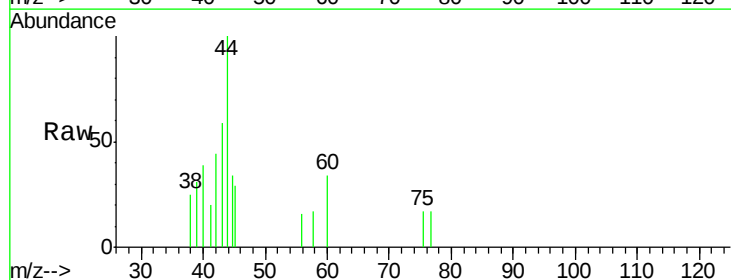
Tgt Ion: 75 Resp: 20

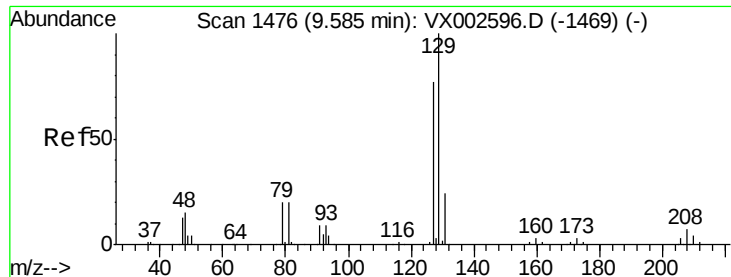
Ion Ratio Lower Upper

75 100

77 101.8 24.8 37.2#

39 19.6 42.4 63.6#





#60

Dibromochloromethane

Concen: 3.77 ug/l

RT: 9.32 min Scan# 1433

Delta R.T. -0.26 min

Lab File: VX002776.D

Acq: 21 Jun 2018 07:24

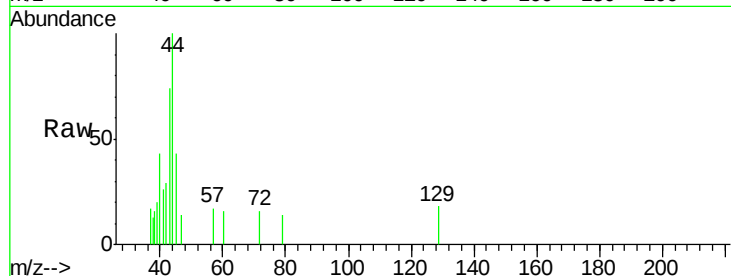
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:129 Resp: 25

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.32

60

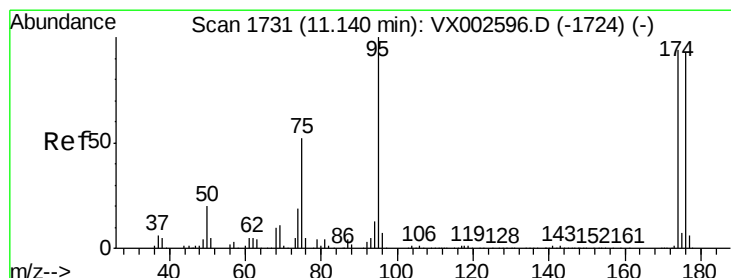
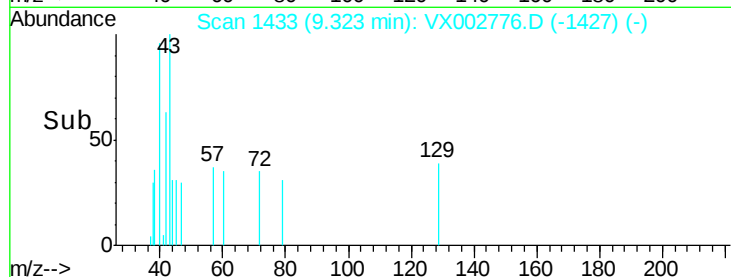
40

20

0

9.30 9.31 9.32 9.33 9.34

Time-->



#62

4-Bromofluorobenzene

Concen: 43.20 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002776.D

Acq: 21 Jun 2018 07:24

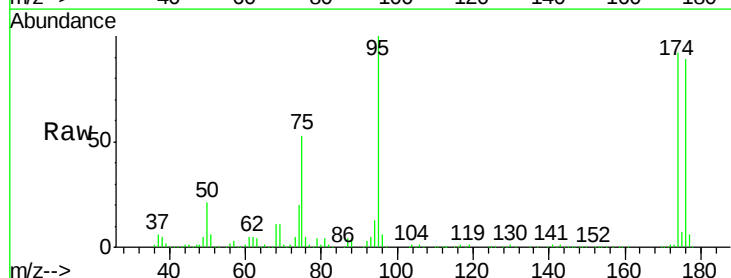
Tgt Ion: 95 Resp: 153898

Ion Ratio Lower Upper

95 100

174 96.7 0.0 187.4

176 94.5 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.14

150000

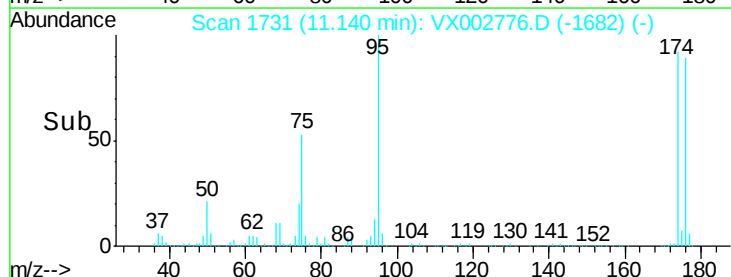
100000

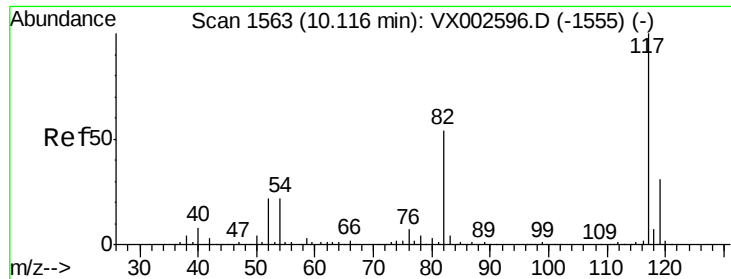
50000

0

11.10 11.20

Time-->

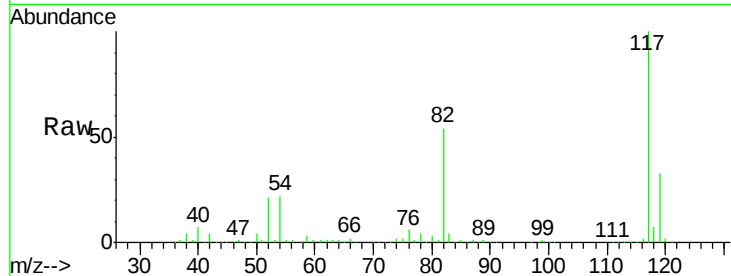




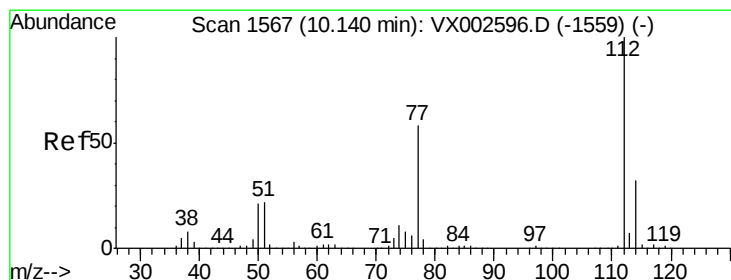
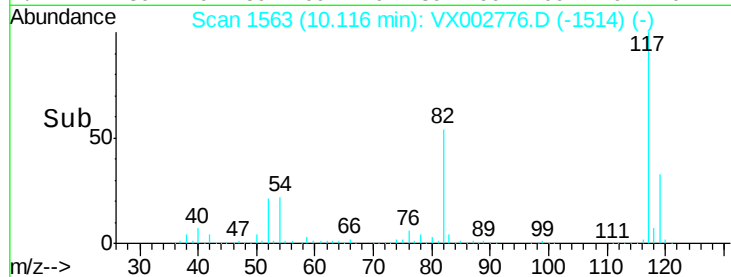
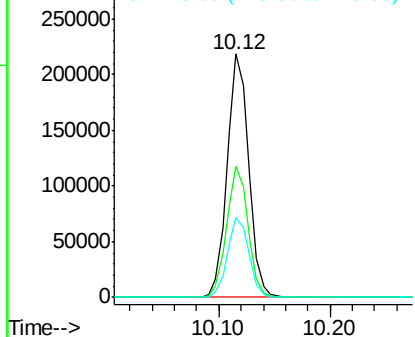
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002776.D
Acq: 21 Jun 2018 07:24

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 291349
Ion Ratio Lower Upper
117 100
82 53.9 45.0 67.4
119 32.8 25.8 38.6

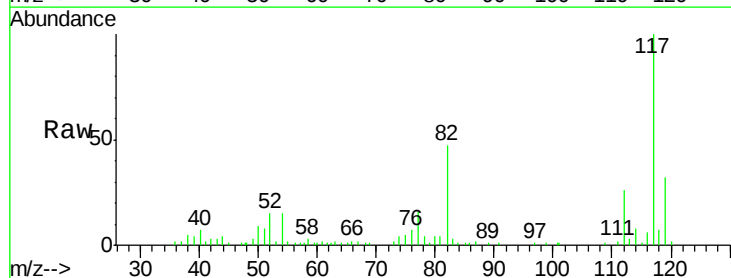


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX
Ion 118.90 (118.60 to 119.60): V

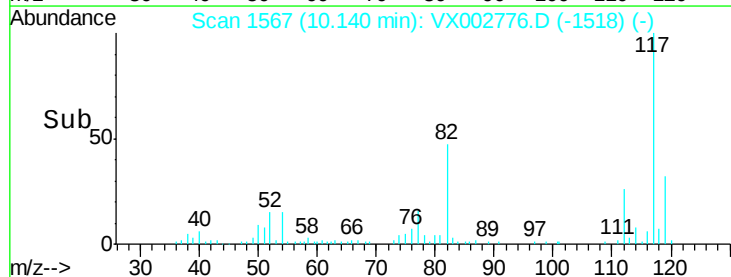
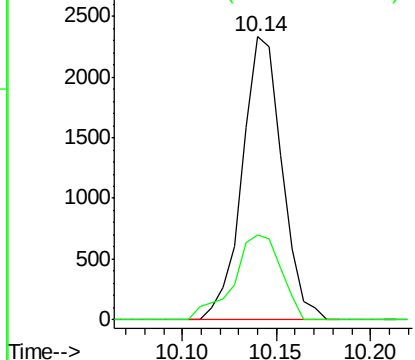


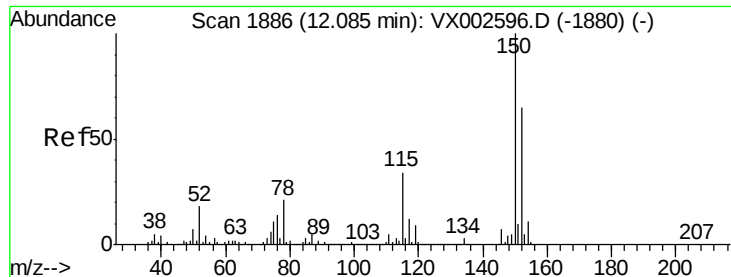
#65
Chlorobenzene
Concen: 0.48 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX002776.D
Acq: 21 Jun 2018 07:24

Tgt Ion:112 Resp: 3407
Ion Ratio Lower Upper
112 100
114 30.0 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: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002776.D

Acq: 21 Jun 2018 07:24

Instrument :

MSVOA_X

ClientSampled :

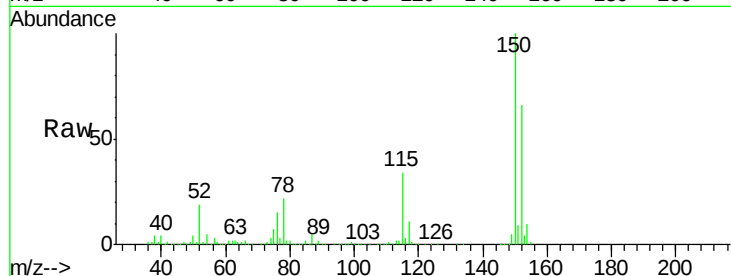
Tot Ion:152 Resp: 163777

Ion Ratio Lower Upper

152 100

115 53.5 40.1 120.2

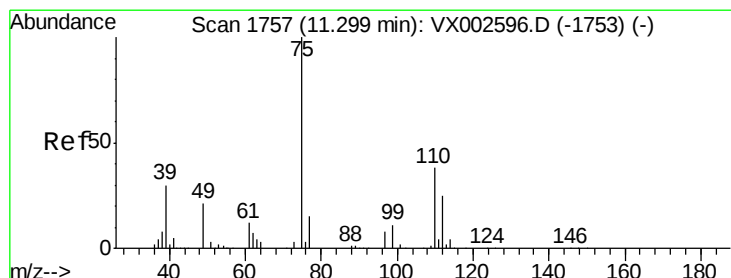
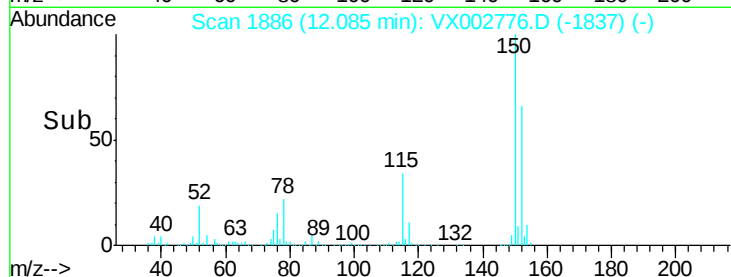
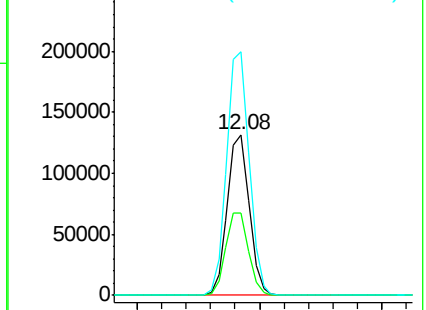
150 154.8 0.0 347.2



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: 26.45 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002776.D

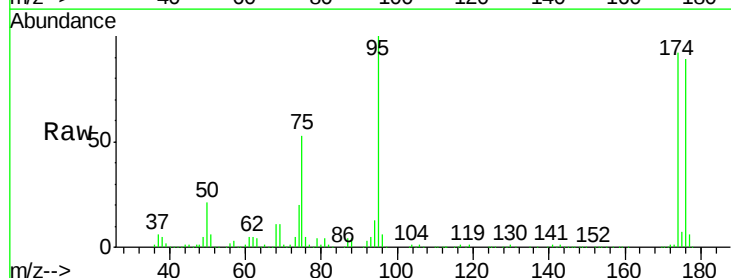
Acq: 21 Jun 2018 07:24

Tgt Ion: 75 Resp: 81733

Ion Ratio Lower Upper

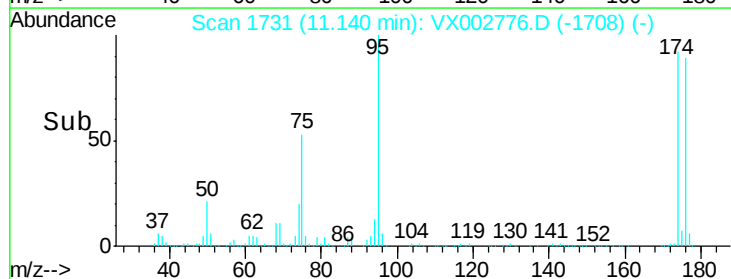
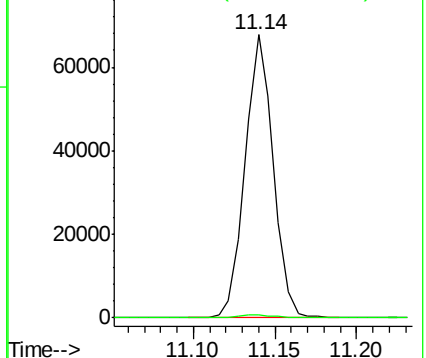
75 100

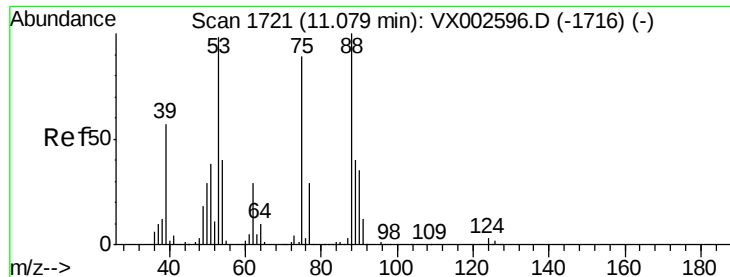
77 1.4 22.8 68.3#



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: 81.73 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002776.D

Acq: 21 Jun 2018 07:24

Instrument :

MSVOA_X

ClientSampleId :

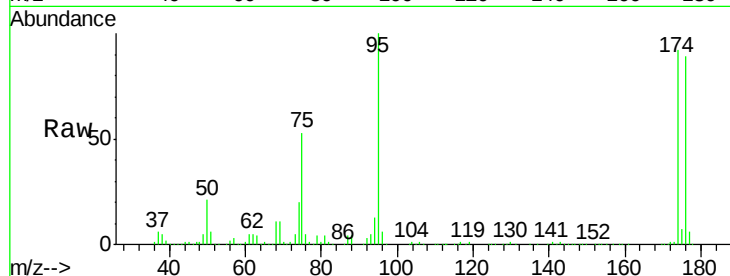
Tot Ion: 75 Resp: 81733

Ion Ratio Lower Upper

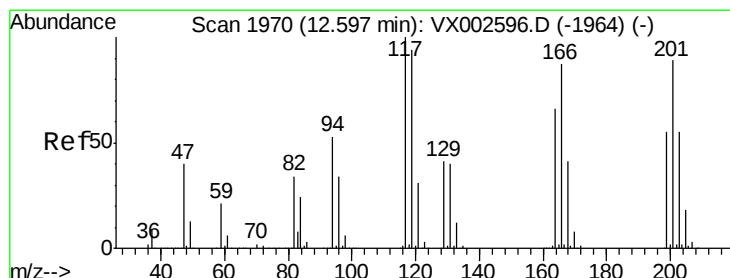
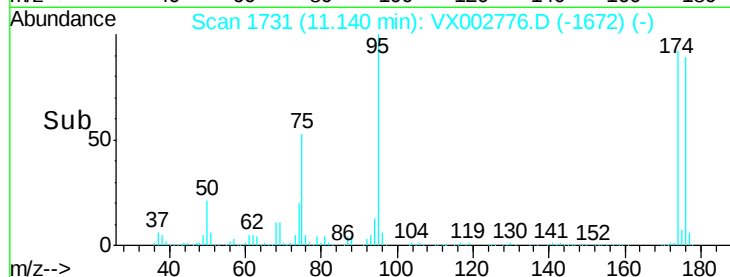
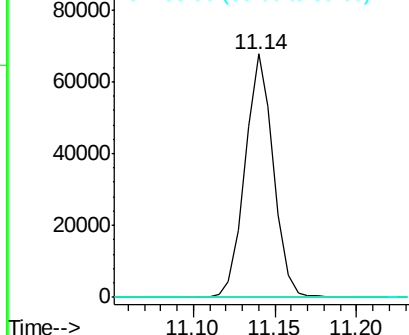
75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#90

Hexachloroethane

Concen: 2.64 ug/l

RT: 12.52 min Scan# 1958

Delta R.T. -0.07 min

Lab File: VX002776.D

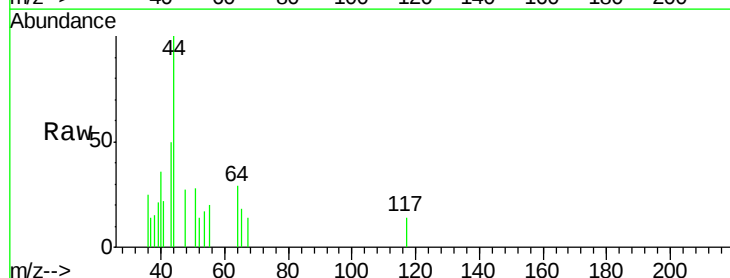
Acq: 21 Jun 2018 07:24

Tgt Ion: 117 Resp: 19

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V

