

Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081418\
 Data File : VX004042.D
 Acq On : 14 Aug 2018 20:23
 Operator : JC/MD
 Sample : J4438-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-284-SRI3

Quant Time: Aug 15 09:29:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 13:27:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	283444	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	455423	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	434648	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	236986	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	207668	52.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.00%	
35) Dibromofluoromethane	5.51	113	173043	50.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.54%	
50) Toluene-d8	8.72	98	648813	46.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.90%	
62) 4-Bromofluorobenzene	11.14	95	225085	44.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.82%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.17	85	657	0.238	ug/l	94
3) Chloromethane	1.32	50	827	0.244	ug/l	92
5) Bromomethane	1.65	94	928	0.322	ug/l	96
6) Chloroethane	1.60	64	5685	0.601	ug/l #	58
9) 1,1,2-Trichlorotrifluoroet	2.39	101	82718	25.801	ug/l	99
10) Methyl Iodide	2.53	142	667	5.185	ug/l #	88
11) Tert butyl alcohol	3.03	59	905	1.125	ug/l #	73
12) 1,1-Dichloroethene	2.39	96	1275	0.428	ug/l	95
13) Acrolein	2.30	56	45	11.028	ug/l #	1
14) Allyl chloride	2.60	41	5686	1.002	ug/l #	53
16) Acetone	2.44	43	4743	2.284	ug/l	96
18) Methyl Acetate	2.59	43	16590	3.595	ug/l #	52
19) Methyl tert-butyl Ether	3.20	73	26050	2.480	ug/l	99
20) Methylene Chloride	2.86	84	386	Below Cal	#	50
27) cis-1,2-Dichloroethene	4.60	96	1335	0.351	ug/l	73
28) Bromochloromethane	5.21	49	1824	0.631	ug/l #	10
30) Chloroform	5.22	83	20285	3.301	ug/l	95
36) 1,1-Dichloropropene	5.67	75	19780	3.817	ug/l #	45
38) Carbon Tetrachloride	5.78	117	5443	1.081	ug/l	94
44) Trichloroethene	7.22	130	20941	4.957	ug/l	91
60) Dibromochloromethane	9.34	129	43822	11.205	ug/l #	11
64) Tetrachloroethene	9.34	164	49188	11.940	ug/l	94
76) 1,2,3-Trichloropropane	11.14	75	107706	22.663	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	107706	70.153	ug/l #	9
95) Naphthalene	13.83	128	596	1.179	ug/l #	80

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX004042.D

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MSVOA_X

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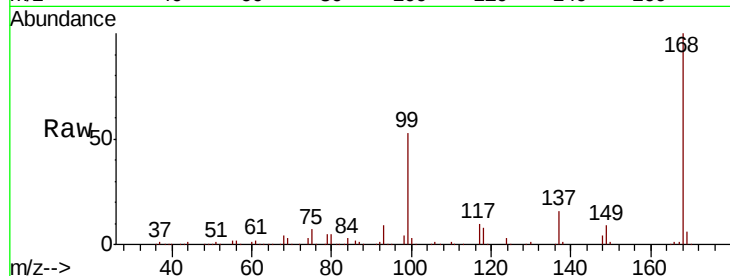
MW-284-SRI3

Tgt Ion:168 Resp: 283444

Ion Ratio Lower Upper

168 100

99 52.7 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

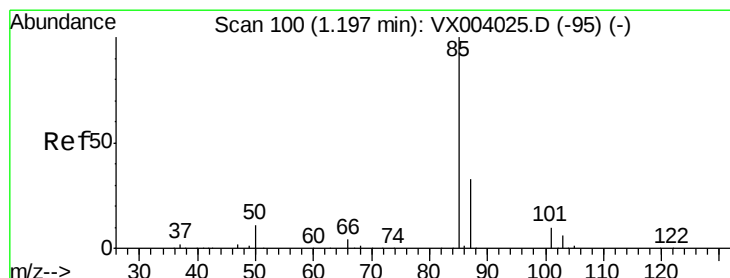
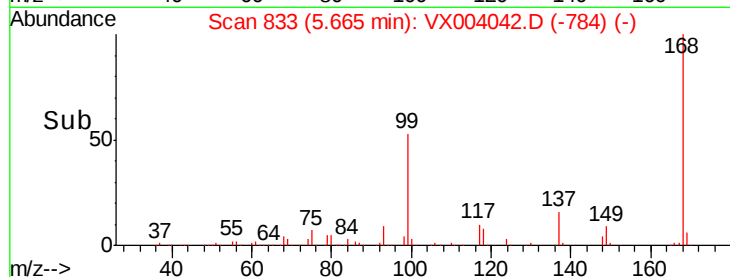
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.238 ug/l

RT: 1.17 min Scan# 96

Delta R.T. -0.02 min

Lab File: VX004042.D

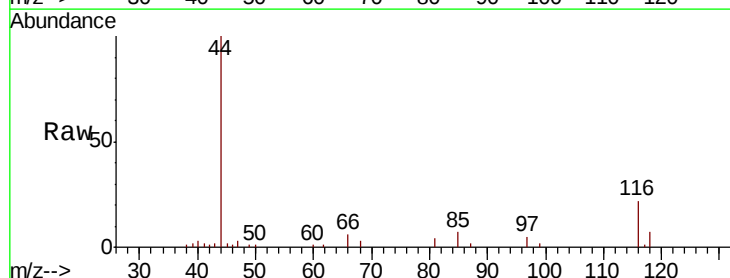
Acq: 14 Aug 2018 20:23

Tgt Ion: 85 Resp: 657

Ion Ratio Lower Upper

85 100

87 28.4 16.0 48.0



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.17

800

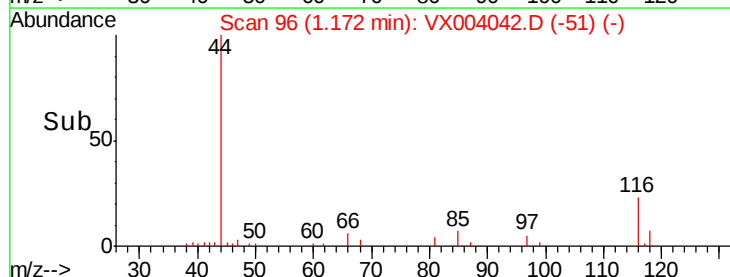
600

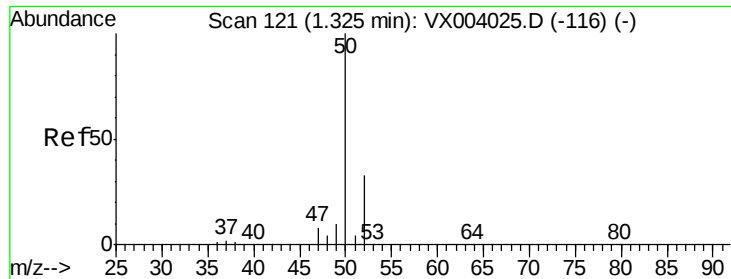
400

200

0

Time--> 1.14 1.16 1.18 1.20





#3

Chloromethane

Concen: 0.244 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX004042.D

Acq: 14 Aug 2018 20:23

Instrument :

MSVOA_X

ClientSampleId :

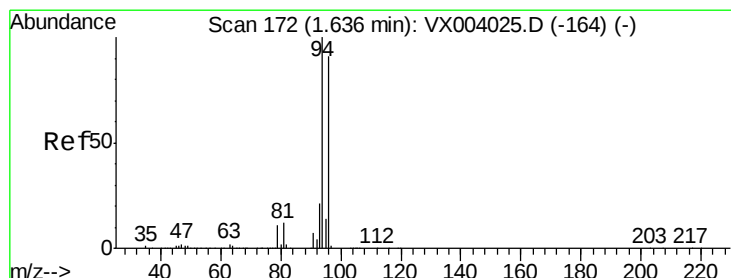
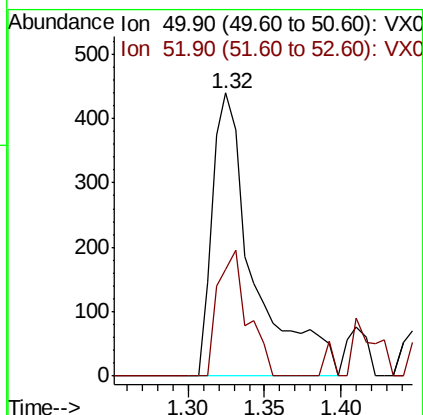
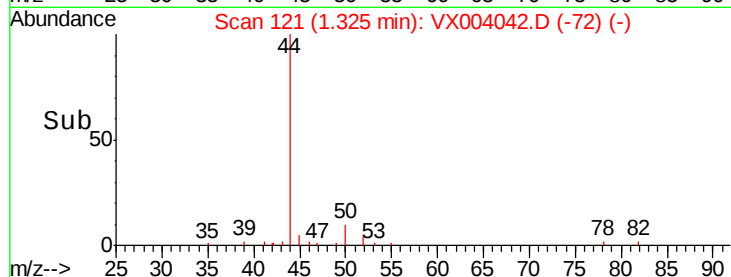
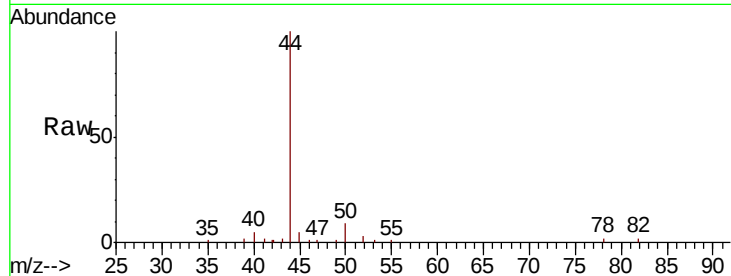
MW-284-SRI3

Tgt Ion: 50 Resp: 827

Ion Ratio Lower Upper

50 100

52 37.8 26.6 39.8



#5

Bromomethane

Concen: 0.322 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX004042.D

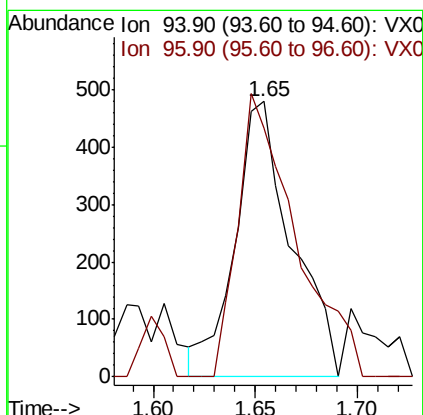
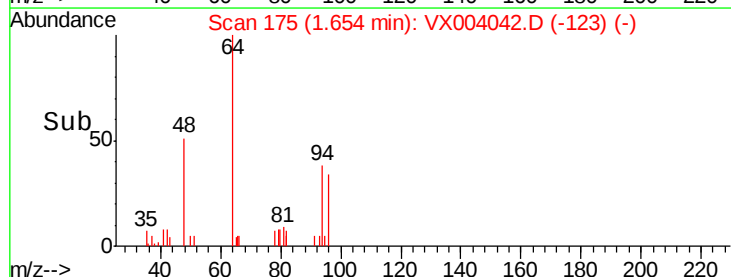
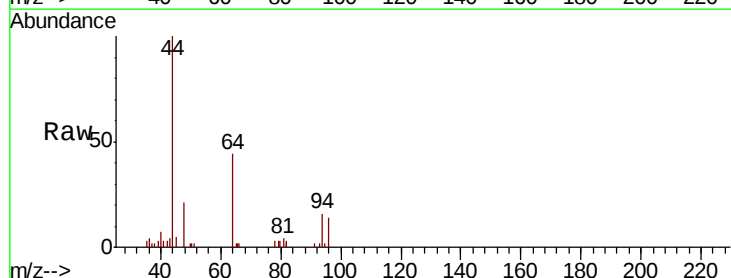
Acq: 14 Aug 2018 20:23

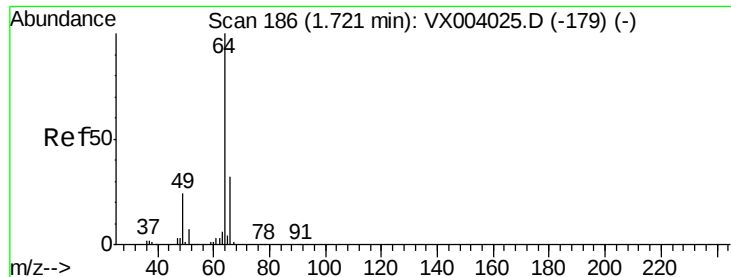
Tgt Ion: 94 Resp: 928

Ion Ratio Lower Upper

94 100

96 90.4 75.2 112.8





#6

Chloroethane

Concen: 0.601 ug/l

RT: 1.60 min Scan# 166

Delta R.T. -0.12 min

Lab File: VX004042.D

Acq: 14 Aug 2018 20:23

Instrument :

MSVOA_X

ClientSampleId :

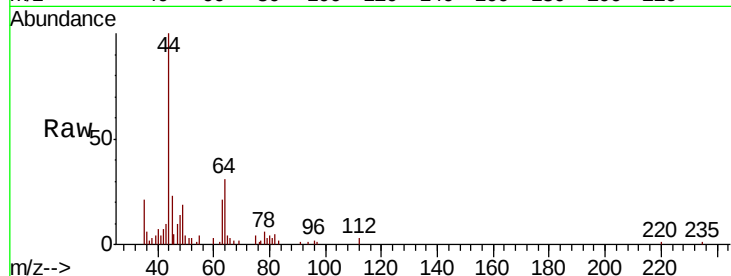
MW-284-SRI3

Tgt Ion: 64 Resp: 5685

Ion Ratio Lower Upper

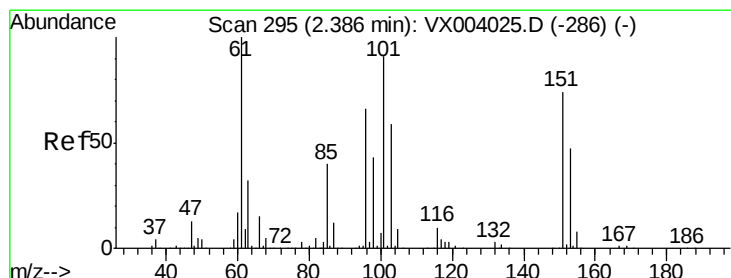
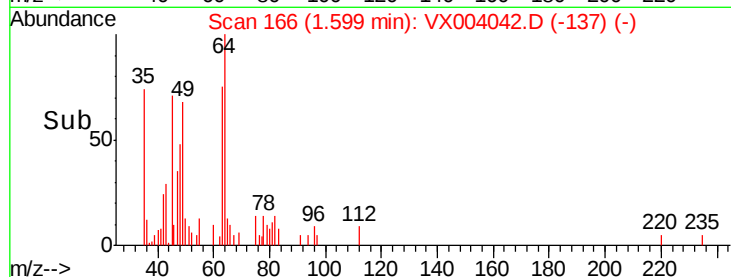
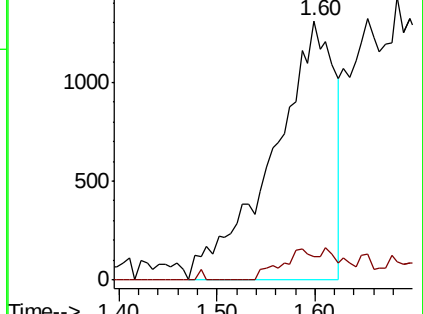
64 100

66 9.1 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 25.801 ug/l

RT: 2.39 min Scan# 296

Delta R.T. 0.01 min

Lab File: VX004042.D

Acq: 14 Aug 2018 20:23

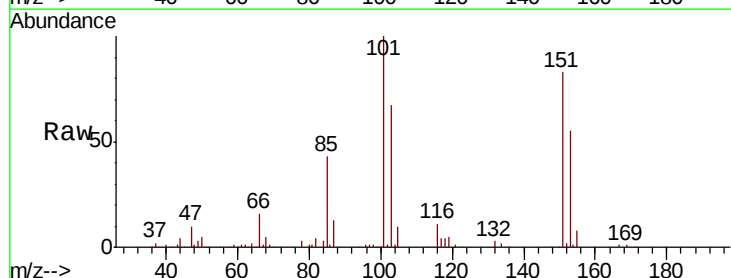
Tgt Ion: 101 Resp: 82718

Ion Ratio Lower Upper

101 100

85 43.3 34.2 51.4

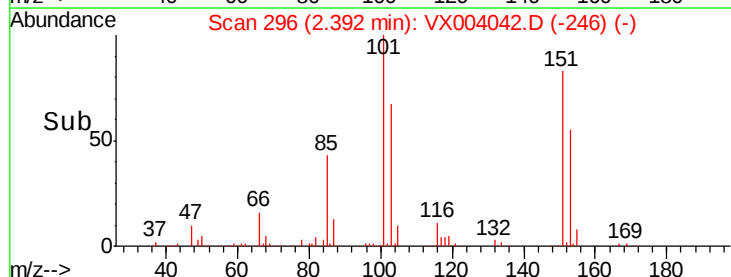
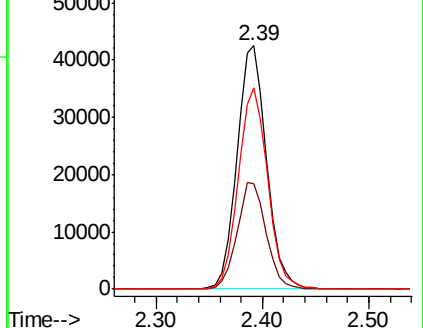
151 82.5 65.0 97.4

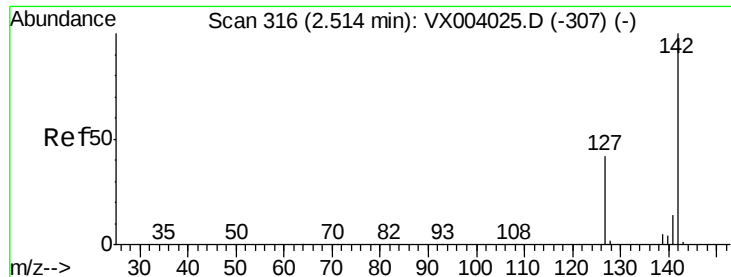


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

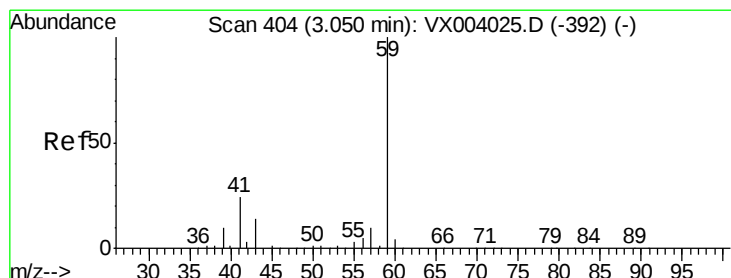
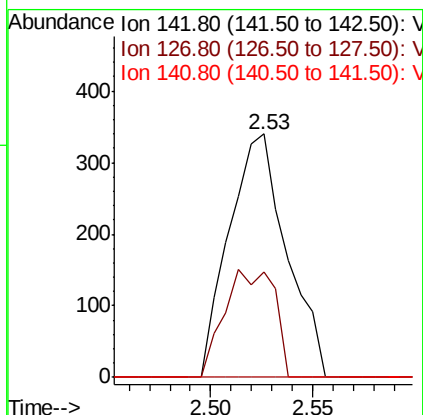
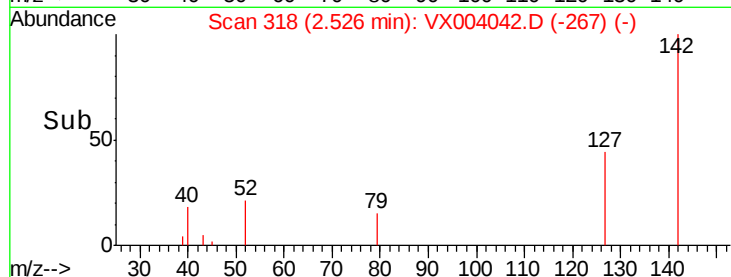
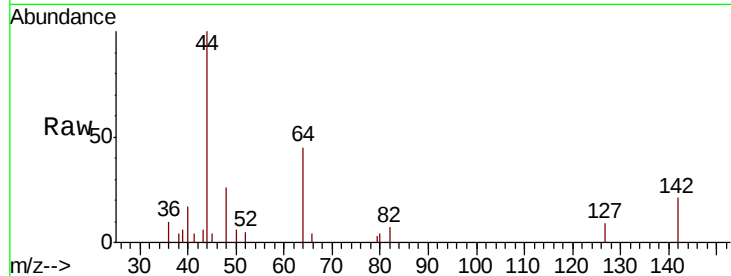




#10
Methyl Iodide
Concen: 5.185 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX004042.D
Acq: 14 Aug 2018 20:23

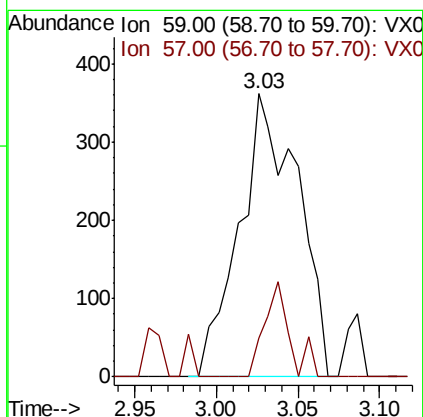
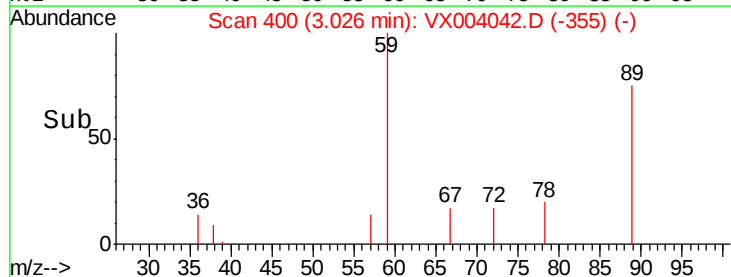
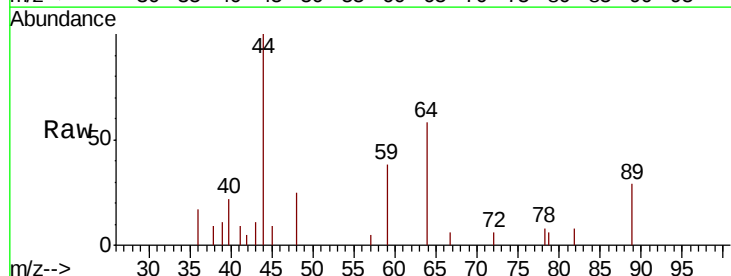
Instrument :
MSVOA_X
ClientSampleId :
MW-284-SRI3

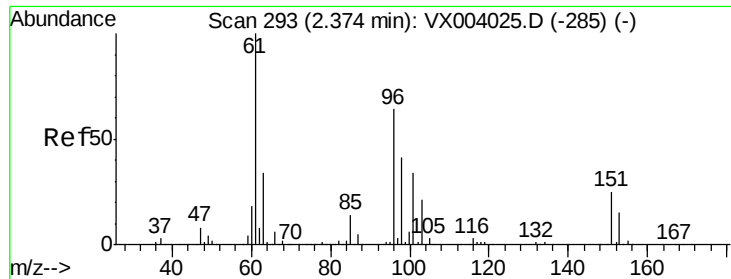
Tgt Ion: 142 Resp: 667
Ion Ratio Lower Upper
142 100
127 38.7 33.1 49.7
141 0.0 11.1 16.7#



#11
Tert butyl alcohol
Concen: 1.125 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.02 min
Lab File: VX004042.D
Acq: 14 Aug 2018 20:23

Tgt Ion: 59 Resp: 905
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#





#12

1,1-Dichloroethene

Concen: 0.428 ug/l

RT: 2.39 min Scan# 295

Delta R.T. 0.01 min

Lab File: VX004042.D

Acq: 14 Aug 2018 20:23

Instrument :

MSVOA_X

ClientSampleId :

MW-284-SRI3

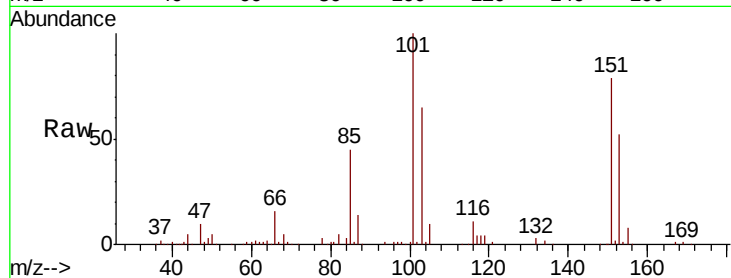
Tgt Ion: 96 Resp: 1275

Ion Ratio Lower Upper

96 100

61 160.3 131.3 196.9

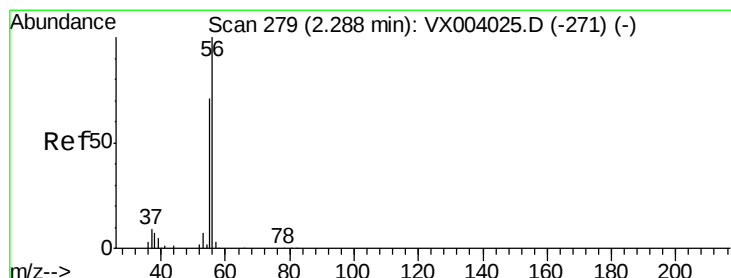
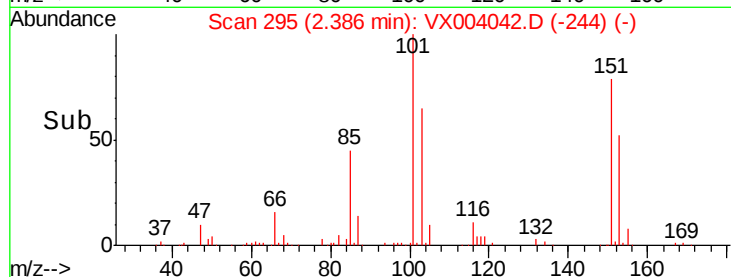
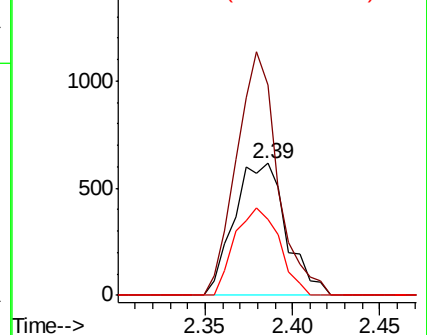
98 57.5 51.8 77.6



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 11.028 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX004042.D

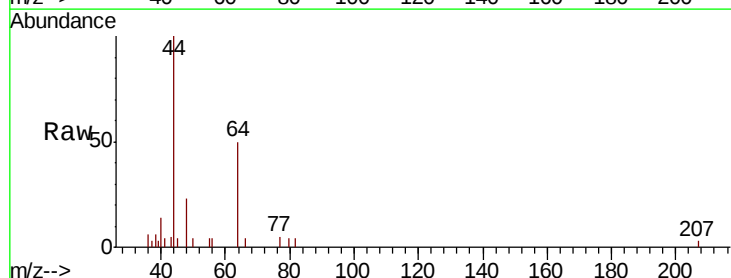
Acq: 14 Aug 2018 20:23

Tgt Ion: 56 Resp: 45

Ion Ratio Lower Upper

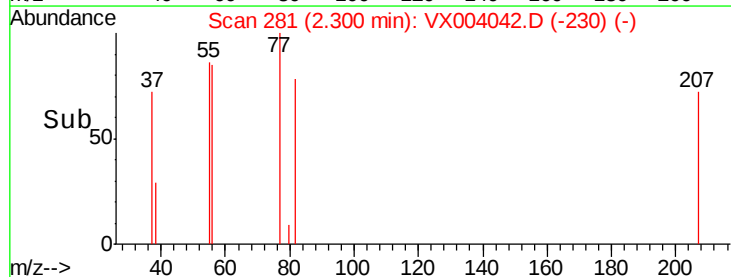
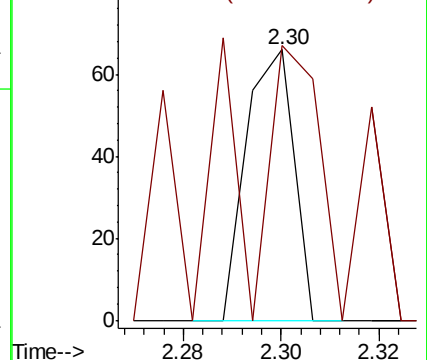
56 100

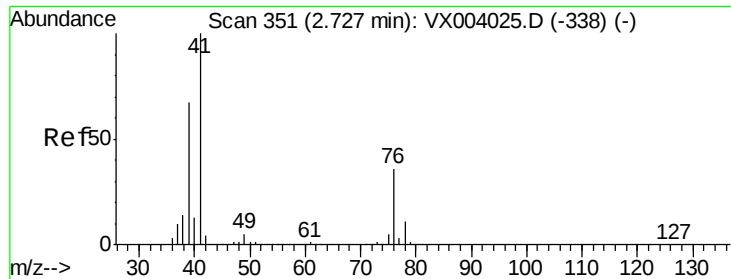
55 200.0 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

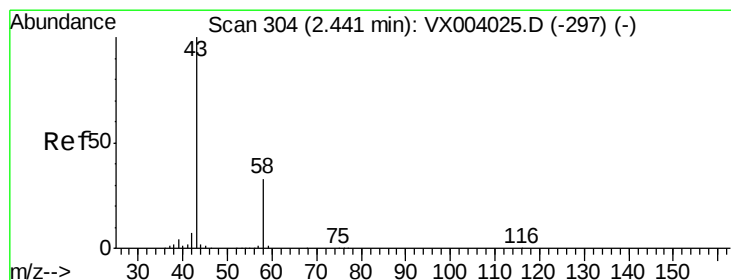
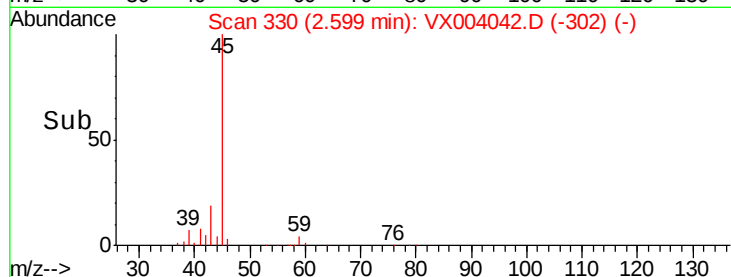
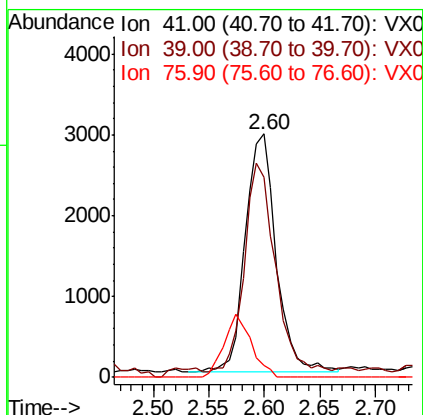
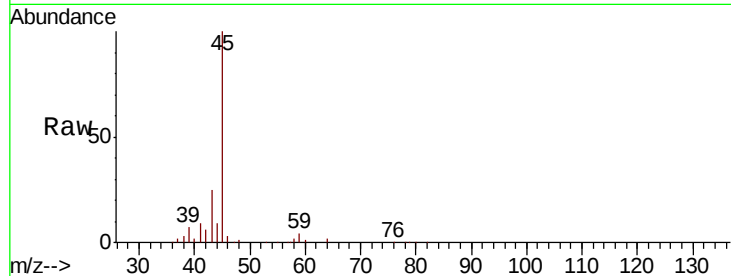




#14
 Allyl chloride
 Concen: 1.002 ug/l
 RT: 2.60 min Scan# 330
 Delta R.T. -0.13 min
 Lab File: VX004042.D
 Acq: 14 Aug 2018 20:23

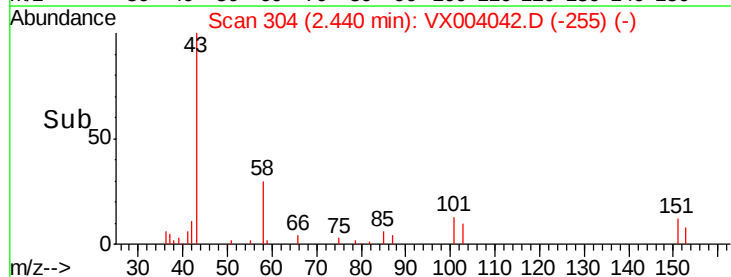
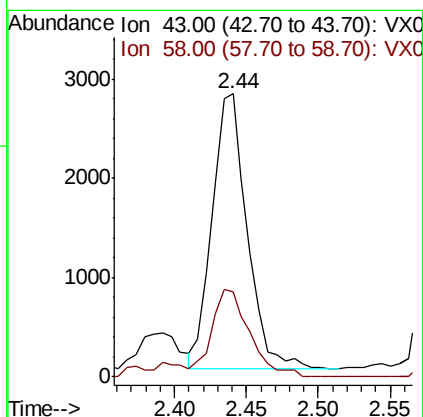
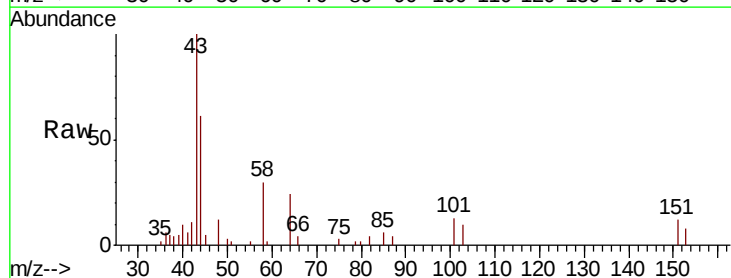
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-284-SRI3

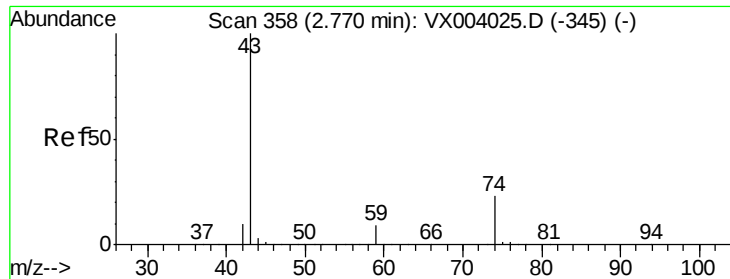
Tgt Ion: 41 Resp: 5686
 Ion Ratio Lower Upper
 41 100
 39 89.8 47.4 71.0#
 76 0.0 26.0 39.0#



#16
 Acetone
 Concen: 2.284 ug/l
 RT: 2.44 min Scan# 304
 Delta R.T. -0.00 min
 Lab File: VX004042.D
 Acq: 14 Aug 2018 20:23

Tgt Ion: 43 Resp: 4743
 Ion Ratio Lower Upper
 43 100
 58 30.7 26.4 39.6

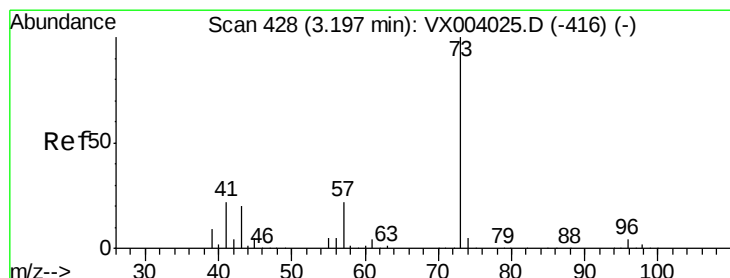
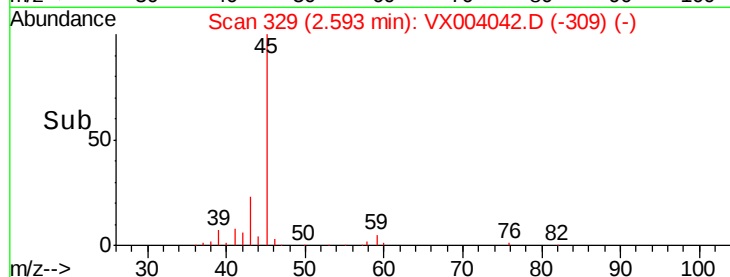
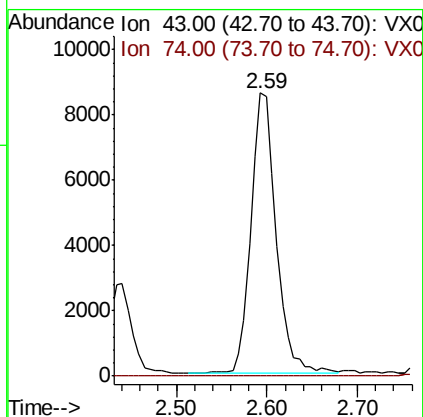
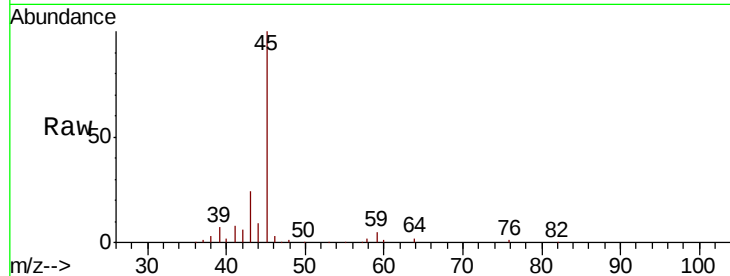




#18
Methyl Acetate
Concen: 3.595 ug/l
RT: 2.59 min Scan# 329
Delta R.T. -0.18 min
Lab File: VX004042.D
Acq: 14 Aug 2018 20:23

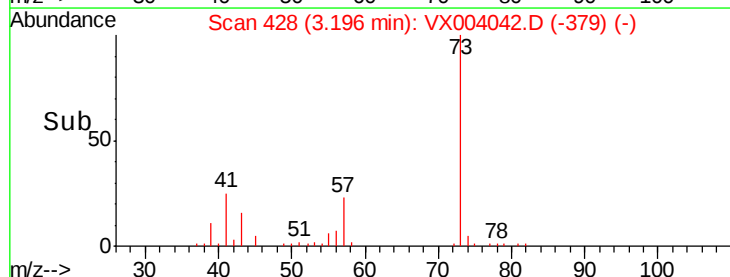
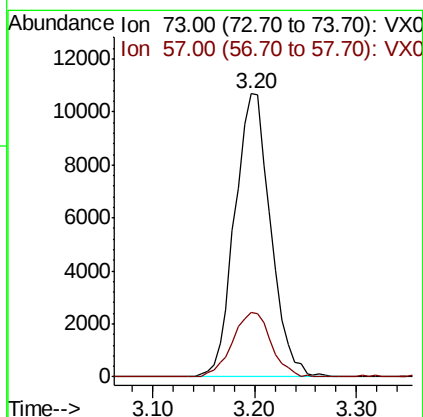
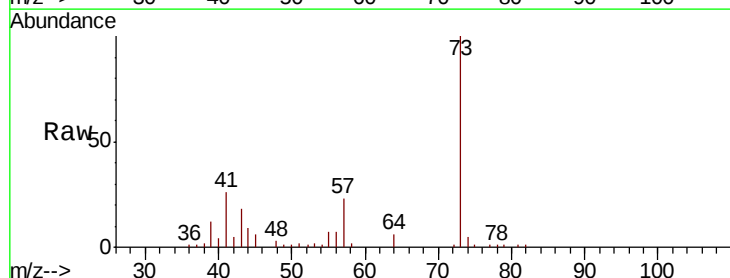
Instrument :
MSVOA_X
ClientSampleId :
MW-284-SRI3

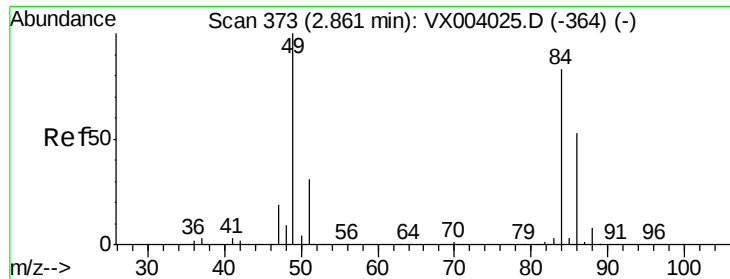
Tgt Ion: 43 Resp: 16590
Ion Ratio Lower Upper
43 100
74 0.0 18.9 28.3#



#19
Methyl tert-butyl Ether
Concen: 2.480 ug/l
RT: 3.20 min Scan# 428
Delta R.T. -0.00 min
Lab File: VX004042.D
Acq: 14 Aug 2018 20:23

Tgt Ion: 73 Resp: 26050
Ion Ratio Lower Upper
73 100
57 23.0 18.0 27.0

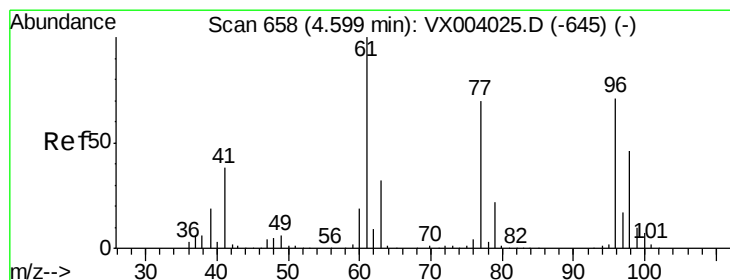
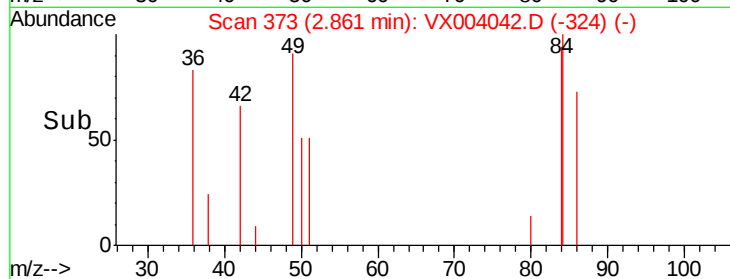
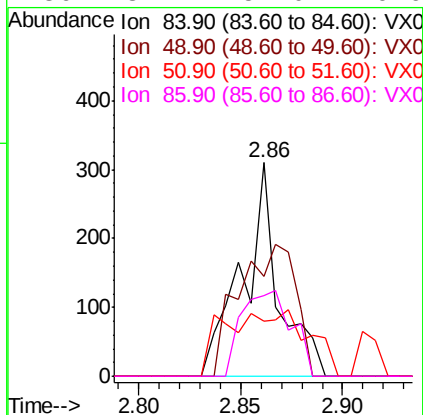
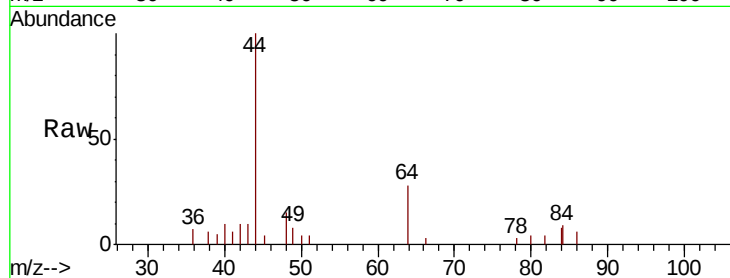




#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX004042.D
Acq: 14 Aug 2018 20:23

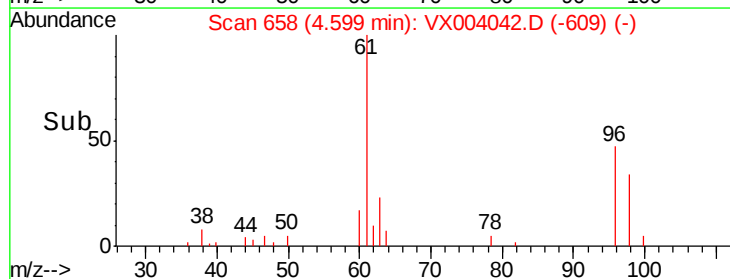
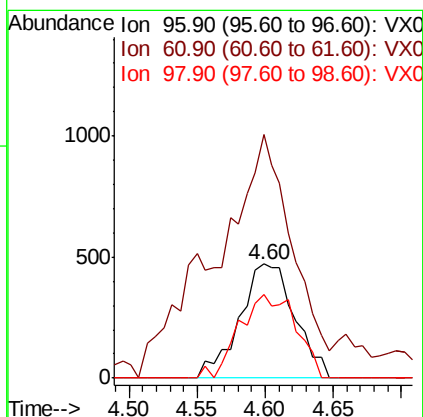
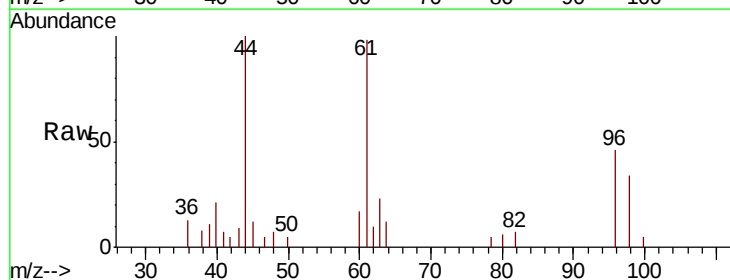
Instrument :
MSVOA_X
ClientSampleId :
MW-284-SRI3

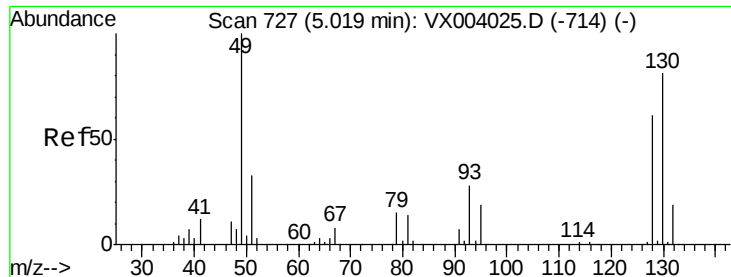
Tgt Ion: 84 Resp: 386
Ion Ratio Lower Upper
84 100
49 47.1 98.9 148.3#
51 26.1 29.9 44.9#
86 37.7 51.0 76.6#



#27
cis-1,2-Dichloroethene
Concen: 0.351 ug/l
RT: 4.60 min Scan# 658
Delta R.T. -0.00 min
Lab File: VX004042.D
Acq: 14 Aug 2018 20:23

Tgt Ion: 96 Resp: 1335
Ion Ratio Lower Upper
96 100
61 188.8 0.0 293.0
98 75.4 0.0 131.8





#28

Bromochloromethane

Concen: 0.631 ug/l

RT: 5.21 min Scan# 759

Delta R.T. 0.19 min

Lab File: VX004042.D

Acq: 14 Aug 2018 20:23

Instrument :

MSVOA_X

ClientSampleId :

MW-284-SRI3

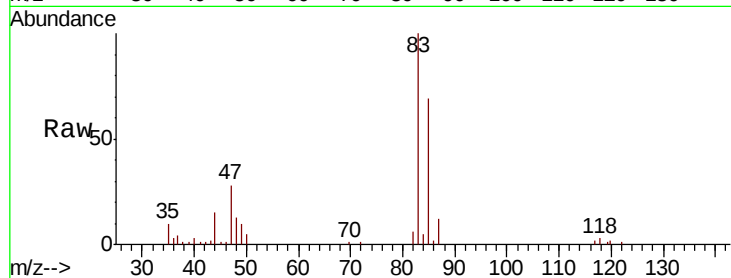
Tgt Ion: 49 Resp: 1824

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 0.0 66.5 99.7#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

5.21

800

600

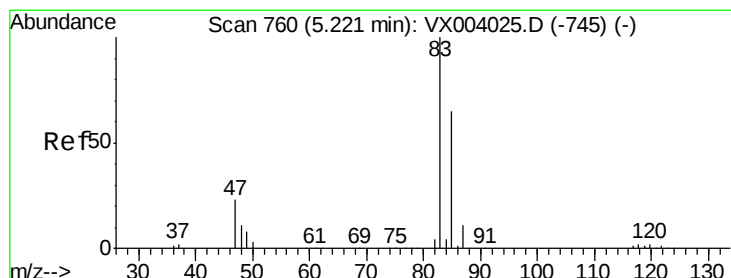
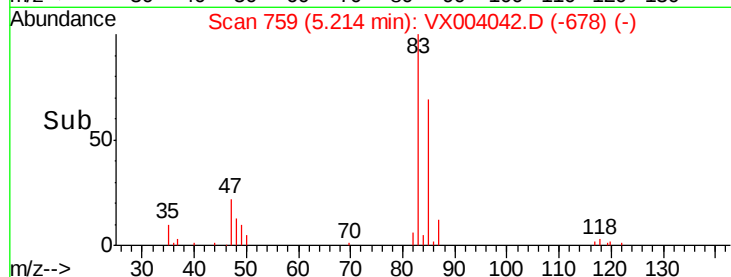
400

200

0

5.15 5.20 5.25 5.30

Time-->



#30

Chloroform

Concen: 3.301 ug/l

RT: 5.22 min Scan# 760

Delta R.T. -0.00 min

Lab File: VX004042.D

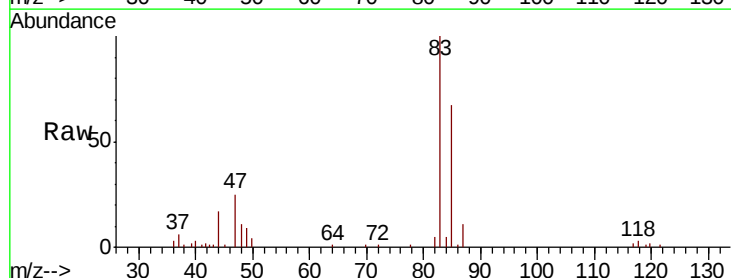
Acq: 14 Aug 2018 20:23

Tgt Ion: 83 Resp: 20285

Ion Ratio Lower Upper

83 100

85 66.9 50.7 76.1



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

8000

6000

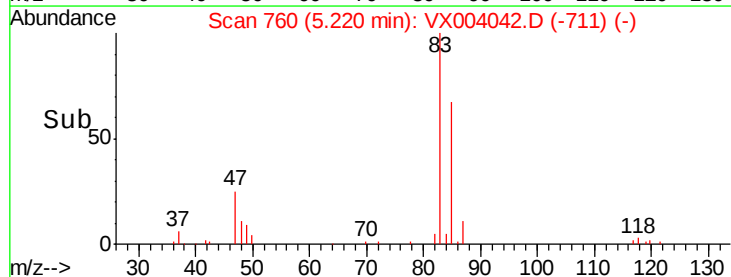
4000

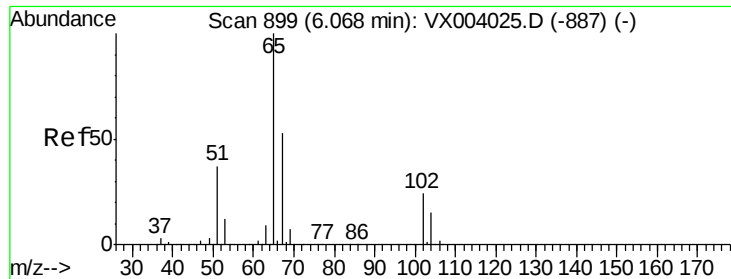
2000

0

5.10 5.20 5.30

Time-->





#33

1,2-Dichloroethane-d4

Concen: 52.000 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX004042.D

Acq: 14 Aug 2018 20:23

Instrument :

MSVOA_X

ClientSampleId :

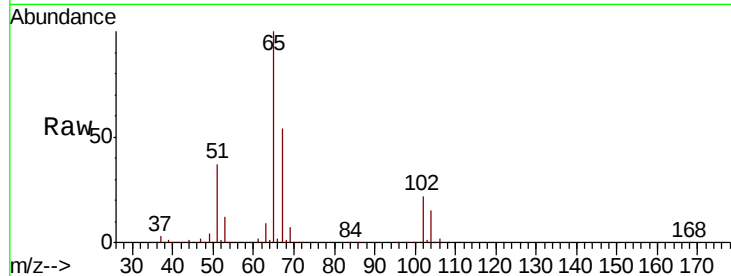
MW-284-SRI3

Tgt Ion: 65 Resp: 207668

Ion Ratio Lower Upper

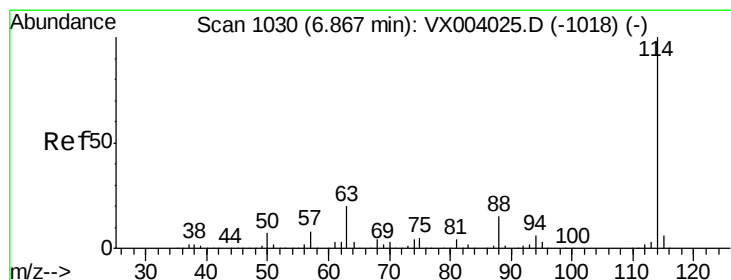
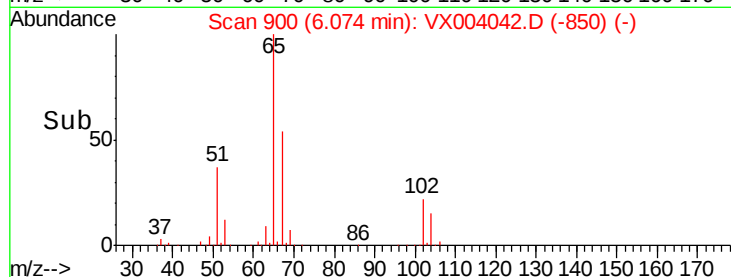
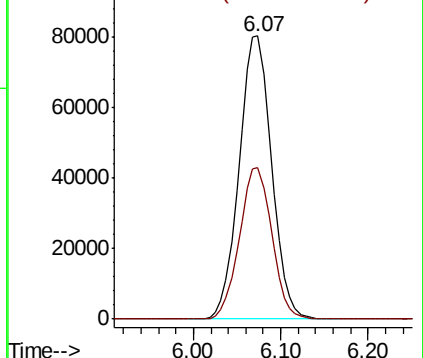
65 100

67 53.2 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX004042.D

Acq: 14 Aug 2018 20:23

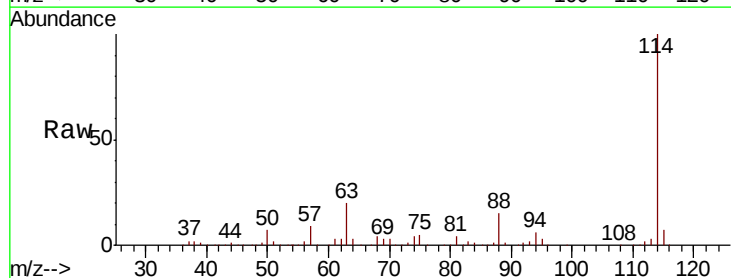
Tgt Ion: 114 Resp: 455423

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.0

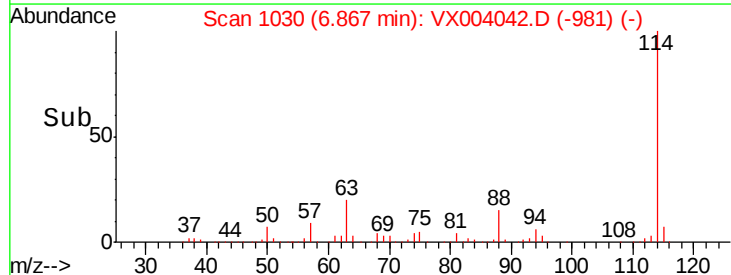
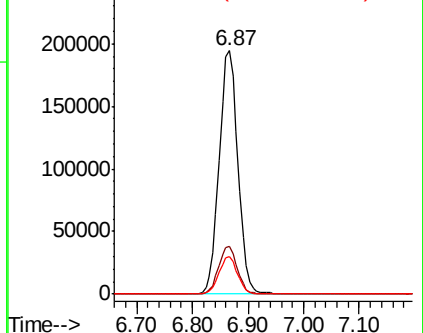
88 15.5 0.0 32.0

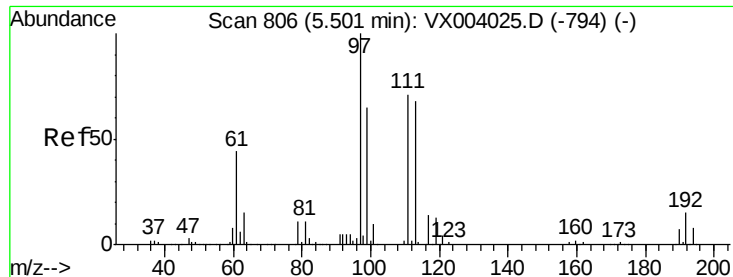


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

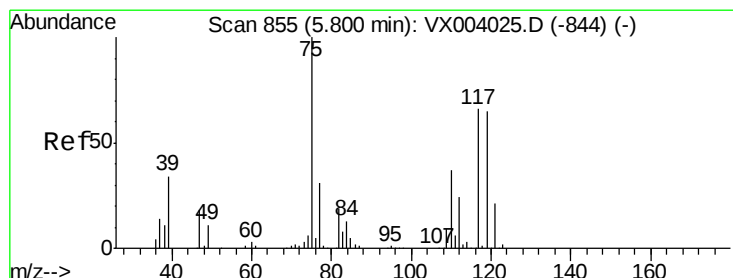
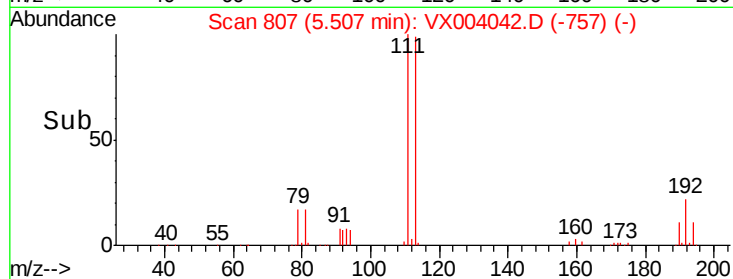
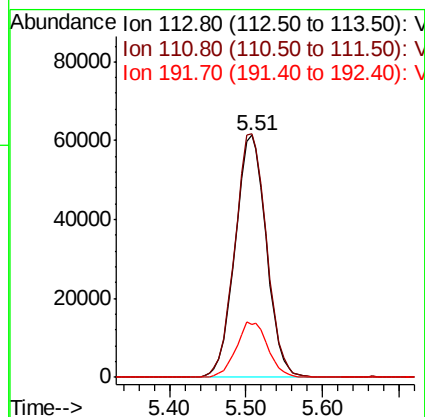
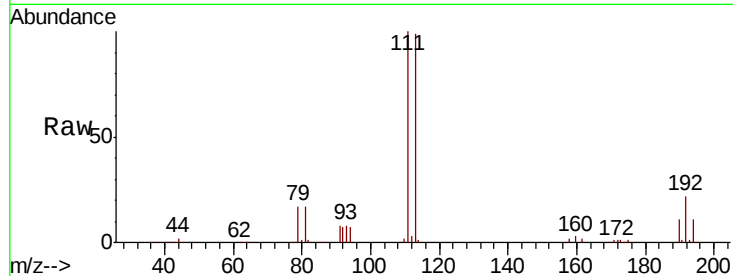




#35
 Dibromofluoromethane
 Concen: 50.768 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX004042.D
 Acq: 14 Aug 2018 20:23

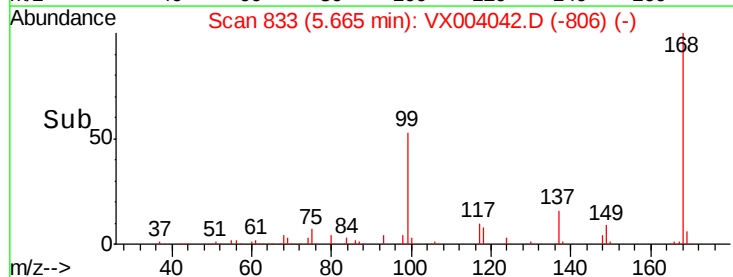
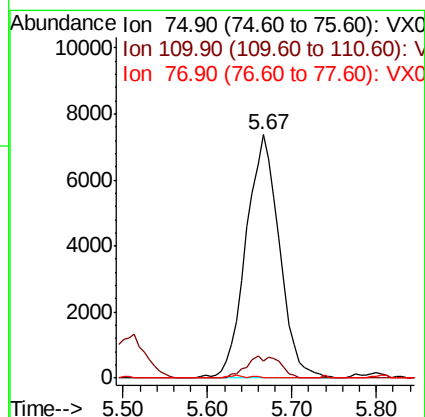
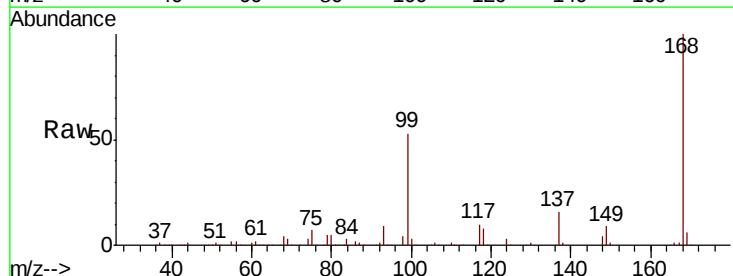
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-284-SRI3

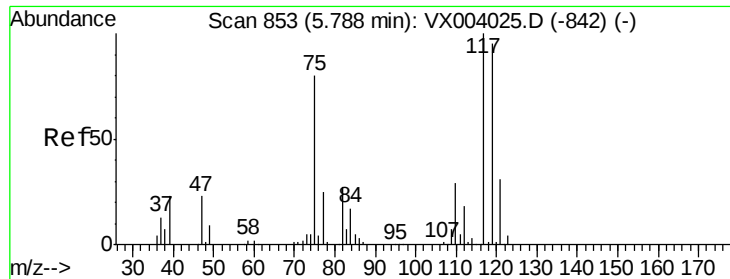
Tgt Ion:113 Resp: 173043
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.0 123.0
 192 23.0 19.0 28.4



#36
 1,1-Dichloropropene
 Concen: 3.817 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX004042.D
 Acq: 14 Aug 2018 20:23

Tgt Ion: 75 Resp: 19780
 Ion Ratio Lower Upper
 75 100
 110 4.8 18.2 54.6#
 77 0.2 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 1.081 ug/l

RT: 5.78 min Scan# 852

Delta R.T. -0.01 min

Lab File: VX004042.D

Acq: 14 Aug 2018 20:23

Instrument :

MSVOA_X

ClientSampleId :

MW-284-SRI3

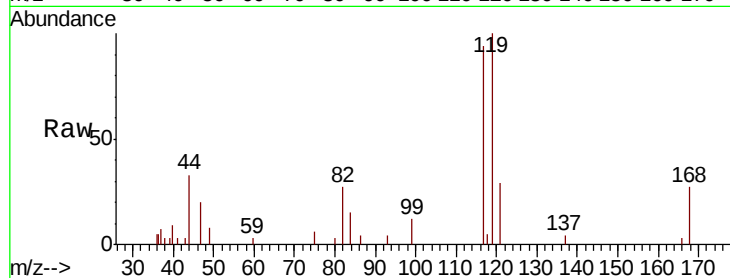
Tgt Ion:117 Resp: 5443

Ion Ratio Lower Upper

117 100

119 106.5 79.5 119.3

121 30.7 25.0 37.4

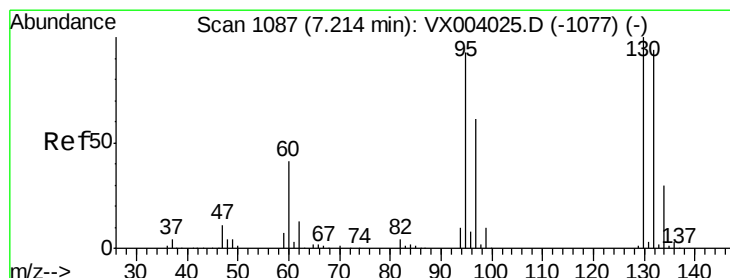
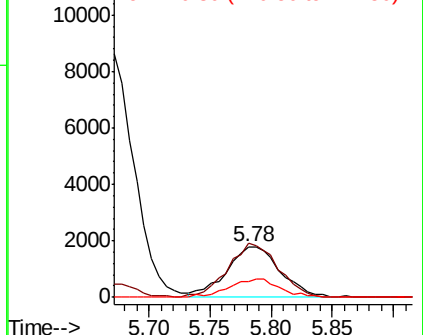
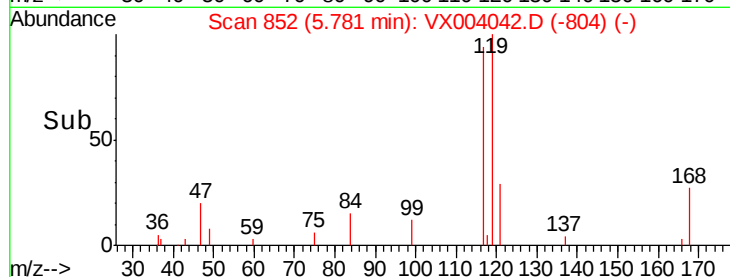


Abundance

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



#44

Trichloroethene

Concen: 4.957 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX004042.D

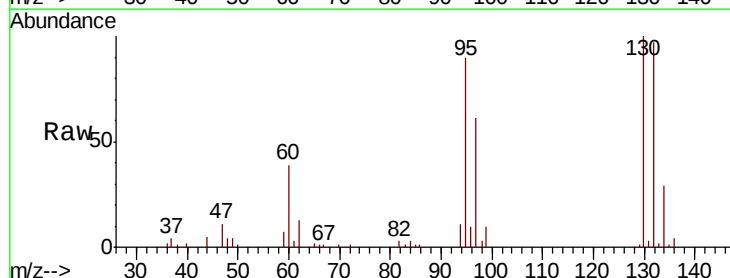
Acq: 14 Aug 2018 20:23

Tgt Ion:130 Resp: 20941

Ion Ratio Lower Upper

130 100

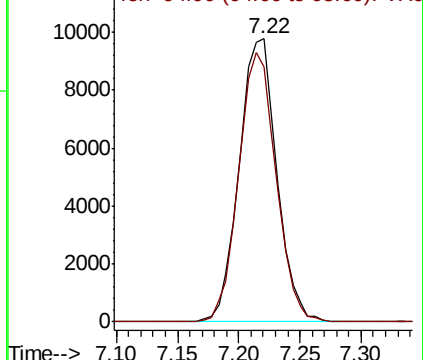
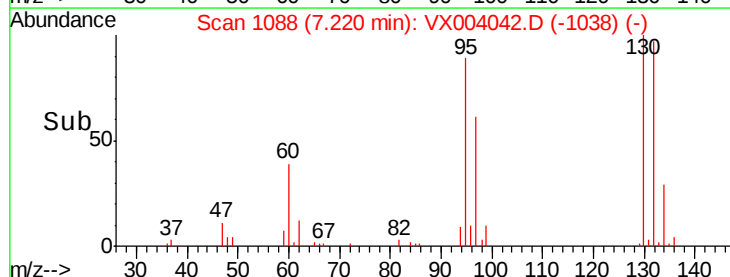
95 90.4 0.0 199.4

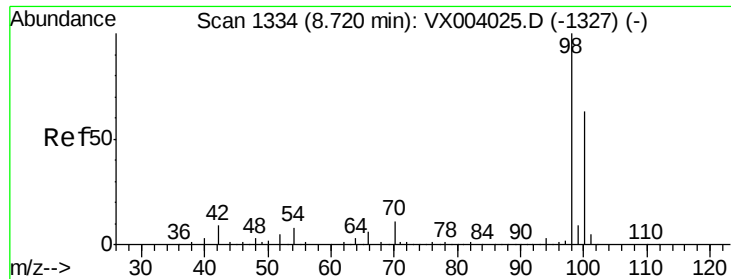


Abundance

Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V

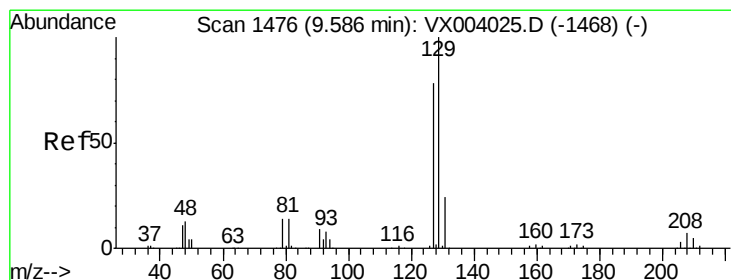
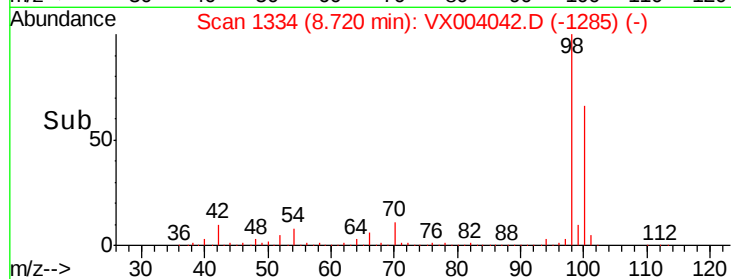
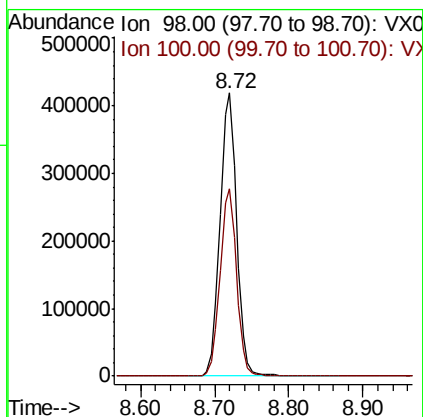
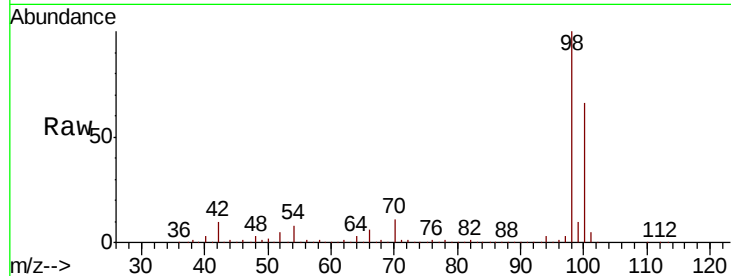




#50
Toluene-d8
Concen: 46.949 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX004042.D
Acq: 14 Aug 2018 20:23

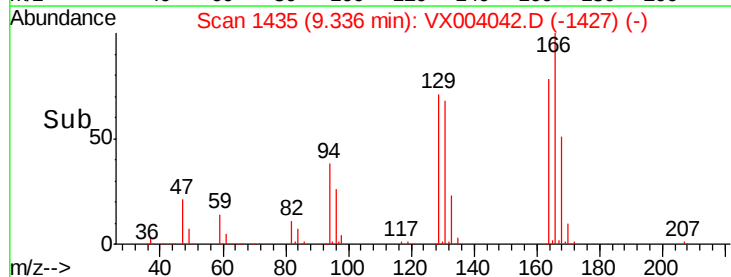
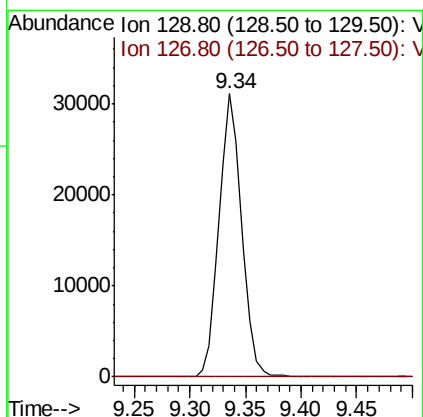
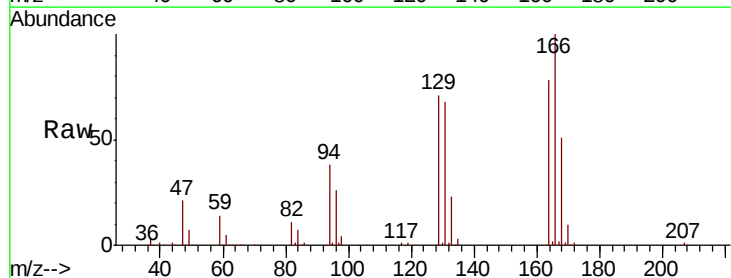
Instrument :
MSVOA_X
ClientSampleId :
MW-284-SRI3

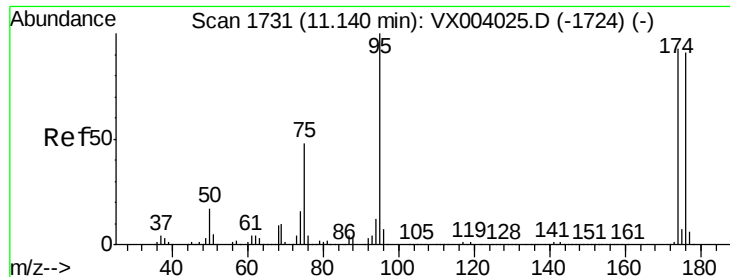
Tgt Ion: 98 Resp: 648813
Ion Ratio Lower Upper
98 100
100 65.9 53.3 79.9



#60
Dibromochloromethane
Concen: 11.205 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.25 min
Lab File: VX004042.D
Acq: 14 Aug 2018 20:23

Tgt Ion: 129 Resp: 43822
Ion Ratio Lower Upper
129 100
127 0.0 38.8 116.3#

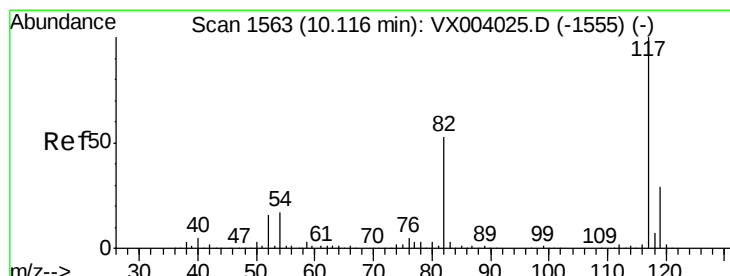
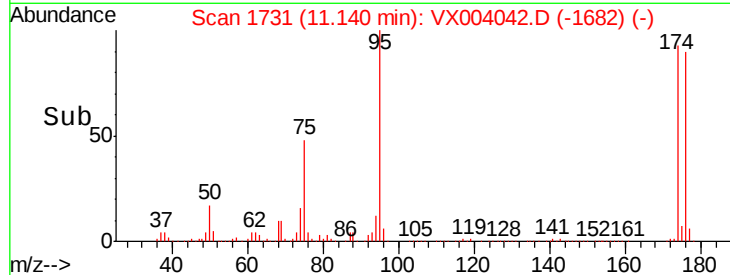
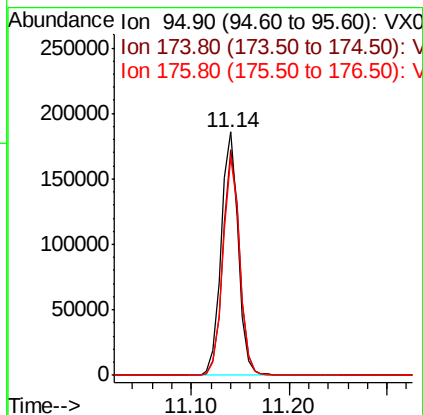
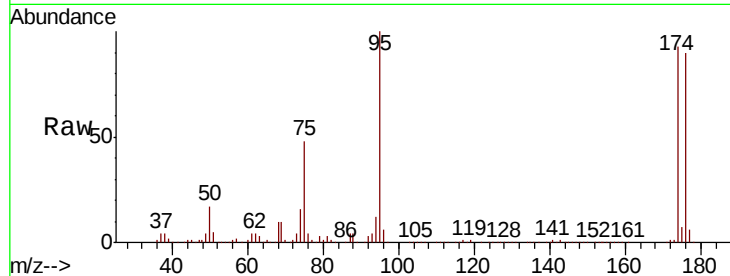




#62
 4-Bromofluorobenzene
 Concen: 44.907 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.00 min
 Lab File: VX004042.D
 Acq: 14 Aug 2018 20:23

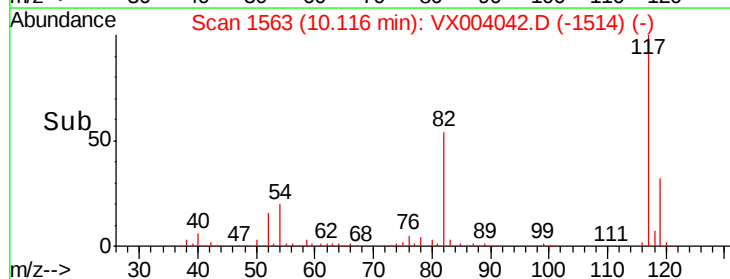
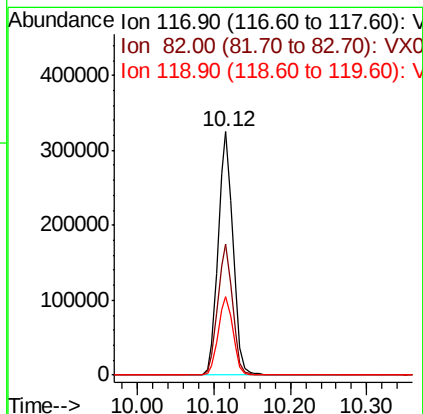
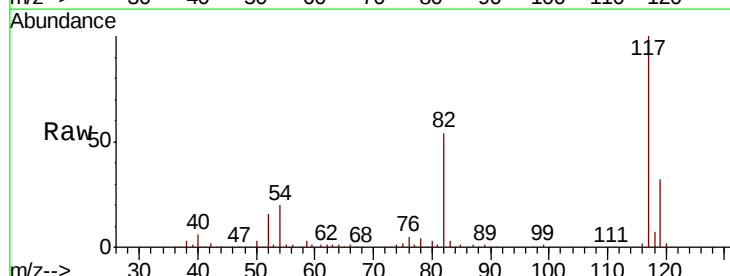
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-284-SRI3

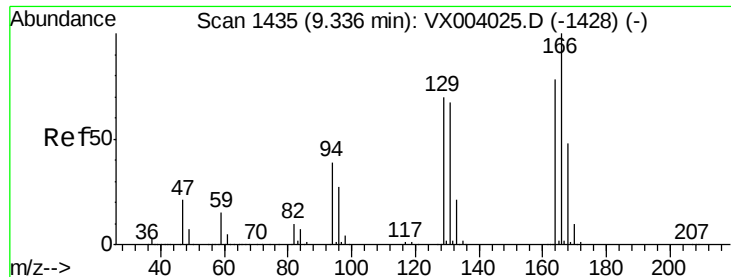
Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.6	0.0	182.8
176	88.1	0.0	179.0



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 10.12 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VX004042.D
 Acq: 14 Aug 2018 20:23

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.6	45.4	68.0
119	32.3	26.6	40.0





#64

Tetrachloroethene

Concen: 11.940 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.00 min

Lab File: VX004042.D

Acq: 14 Aug 2018 20:23

Instrument :

MSVOA_X

ClientSampleId :

MW-284-SRI3

Tgt Ion:164 Resp: 49188

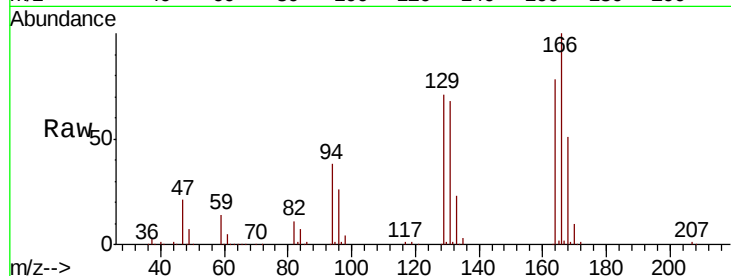
Ion Ratio Lower Upper

164 100

166 127.4 98.0 147.0

129 89.9 64.3 96.5

131 86.0 66.8 100.2

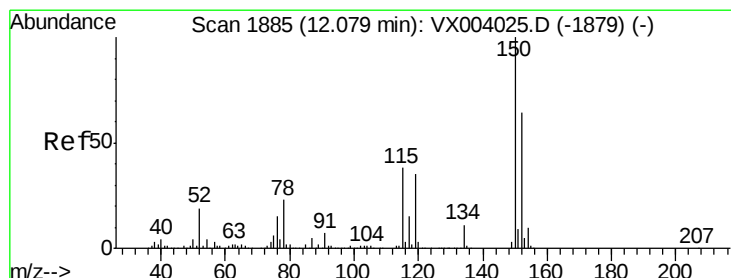
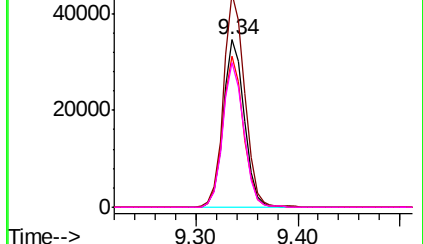
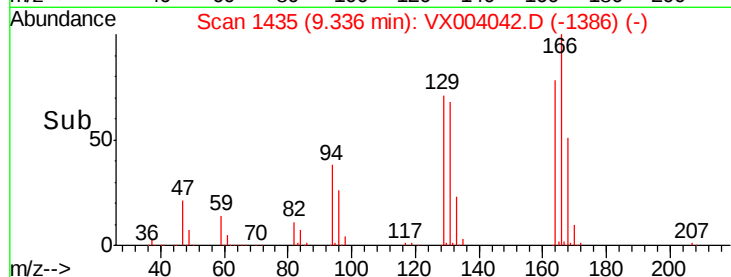


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004042.D

Acq: 14 Aug 2018 20:23

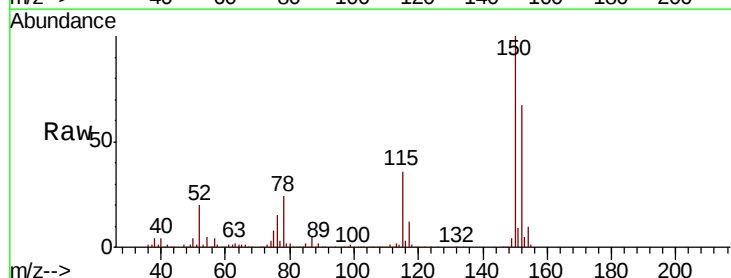
Tgt Ion:152 Resp: 236986

Ion Ratio Lower Upper

152 100

115 54.5 39.1 117.3

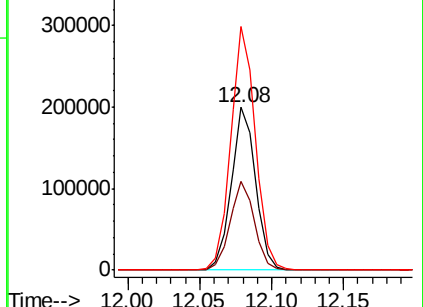
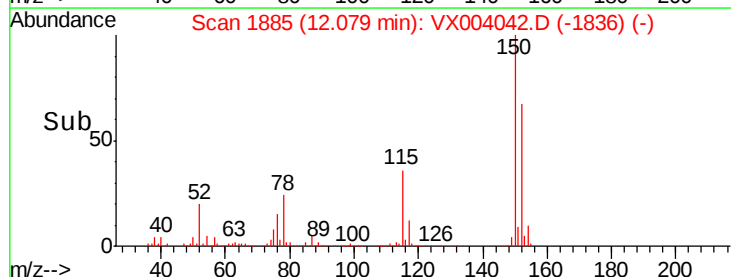
150 151.5 0.0 349.2

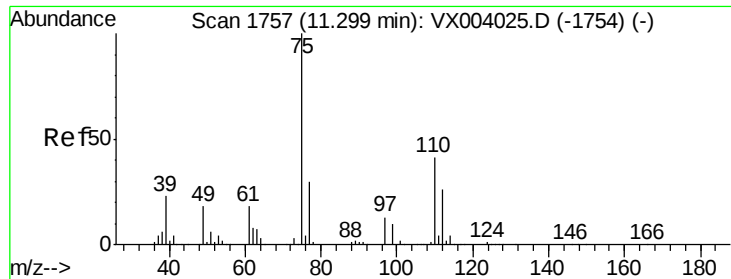


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

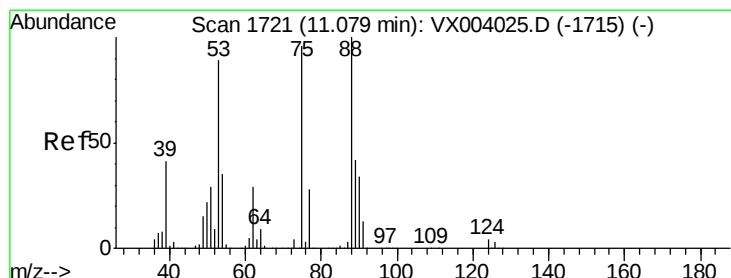
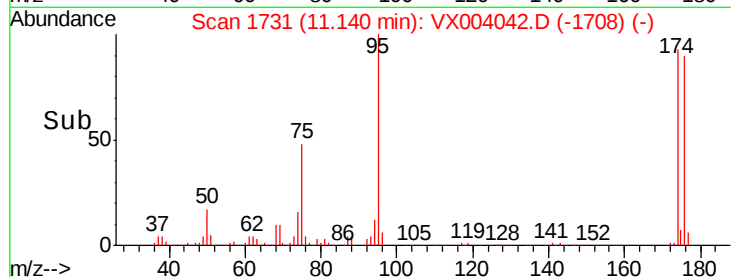
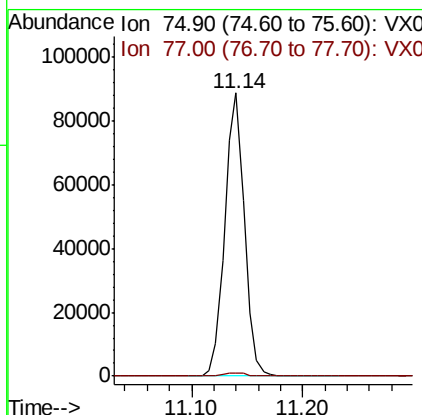
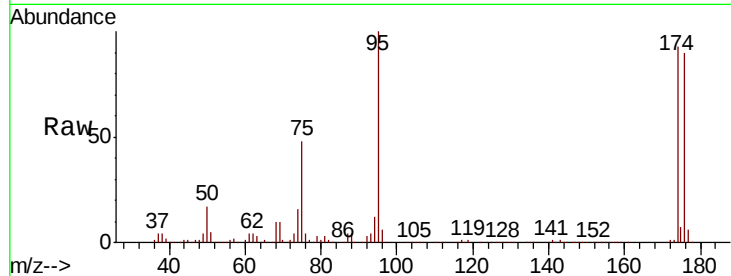




#76
 1,2,3-Trichloropropane
 Concen: 22.663 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX004042.D
 Acq: 14 Aug 2018 20:23

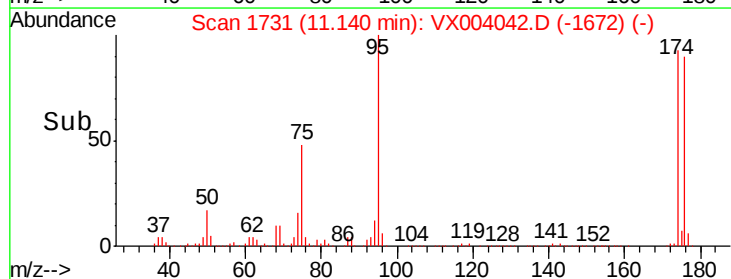
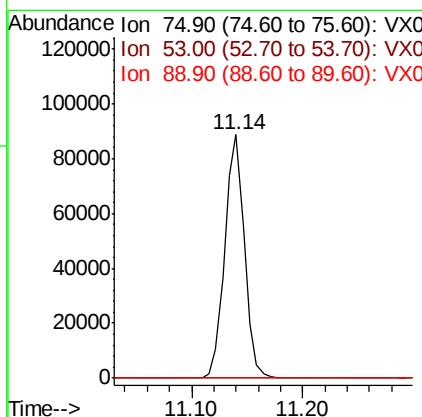
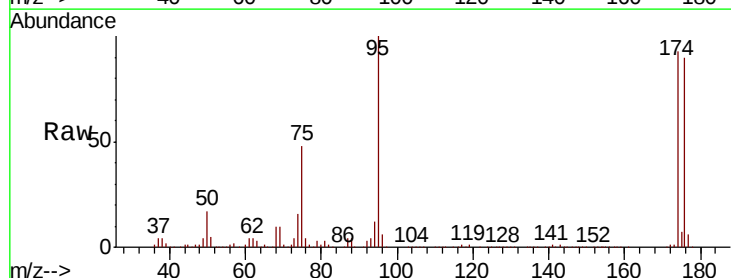
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-284-SRI3

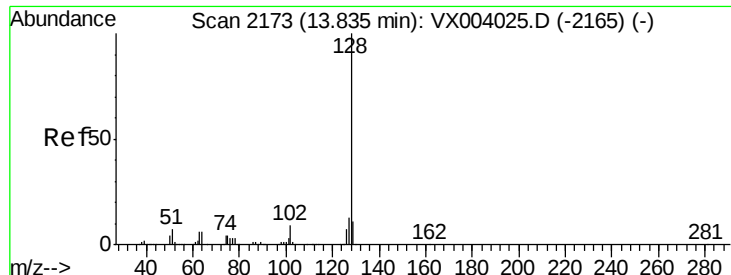
Tgt Ion: 75 Resp: 107706
 Ion Ratio Lower Upper
 75 100
 77 1.4 20.8 62.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.153 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX004042.D
 Acq: 14 Aug 2018 20:23

Tgt Ion: 75 Resp: 107706
 Ion Ratio Lower Upper
 75 100
 53 0.2 80.3 120.5#
 89 0.1 37.8 56.8#





#95
Naphthalene
Concen: 1.179 ug/l
RT: 13.83 min Scan# 2173
Delta R.T. 0.00 min
Lab File: VX004042.D
Acq: 14 Aug 2018 20:23

Instrument :
MSVOA_X
ClientSampleId :
MW-284-SRI3

Tgt Ion:128 Resp: 596
Ion Ratio Lower Upper
128 100
127 17.3 10.2 15.2#
129 0.0 8.8 13.2#

