

Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081418\
 Data File : VX004054.D
 Acq On : 15 Aug 2018 03:27
 Operator : JC/MD
 Sample : J4438-13
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RB4-SRI3

Quant Time: Aug 15 09:40:42 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	271167	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	429214	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	398925	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	216316	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	202660	53.04	ug/l	0.00
Spiked Amount			Recovery	=	106.08%	
35) Dibromofluoromethane	5.51	113	166273	51.76	ug/l	0.00
Spiked Amount			Recovery	=	103.52%	
50) Toluene-d8	8.72	98	614928	47.21	ug/l	0.00
Spiked Amount			Recovery	=	94.42%	
62) 4-Bromofluorobenzene	11.14	95	207888	44.01	ug/l	0.00
Spiked Amount			Recovery	=	88.02%	

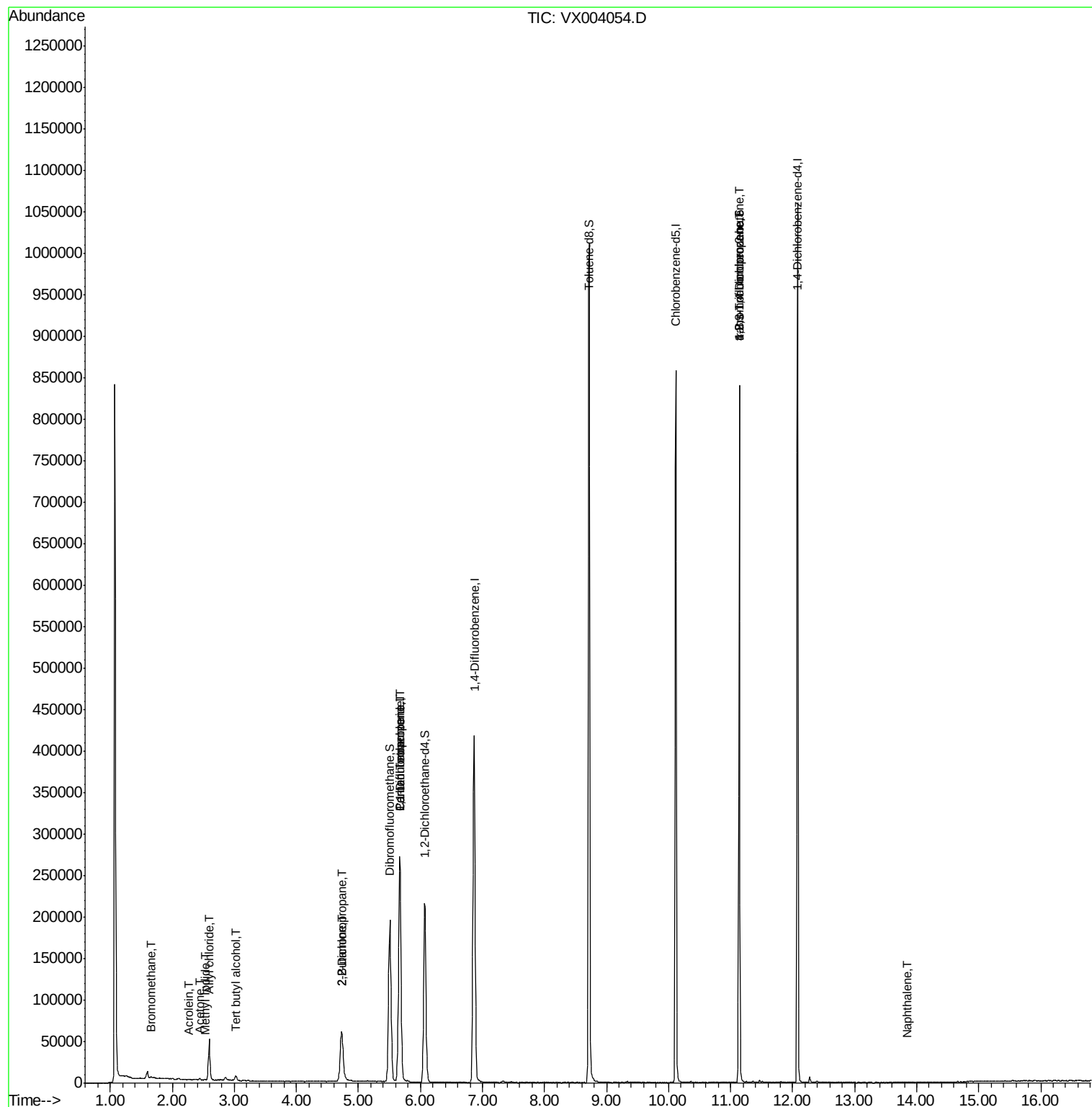
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1056	0.417	ug/l	99
6) Chloroethane	1.65	64	321	Below Cal	#	85
10) Methyl Iodide	2.53	142	690	5.200	ug/l #	91
11) Tert butyl alcohol	3.02	59	4160	5.407	ug/l #	84
13) Acrolein	2.28	56	19	10.984	ug/l #	57
14) Allyl chloride	2.59	41	5148	0.948	ug/l #	84
16) Acetone	2.44	43	2731	1.375	ug/l	93
20) Methylene Chloride	2.86	84	1555	Below Cal		94
25) 2-Butanone	4.73	43	3670	1.136	ug/l #	64
26) 2,2-Dichloropropane	4.73	77	5779	1.207	ug/l #	51
36) 1,1-Dichloropropene	5.67	75	18850	3.859	ug/l #	49
38) Carbon Tetrachloride	5.67	117	24547	5.173	ug/l #	14
76) 1,2,3-Trichloropropane	11.14	75	100822	23.241	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	100822	71.944	ug/l #	9
95) Naphthalene	13.83	128	529	1.178	ug/l #	69

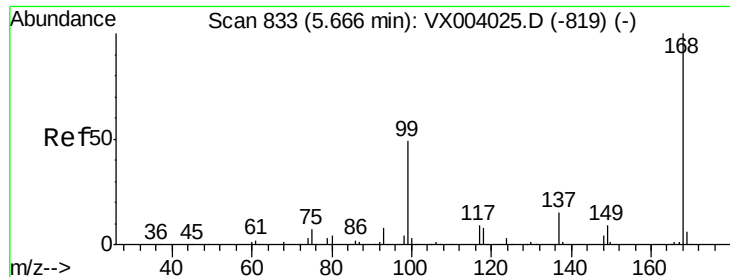
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX004054.D

Acq: 15 Aug 2018 03:27

Instrument :

MSVOA_X

ClientSampleId :

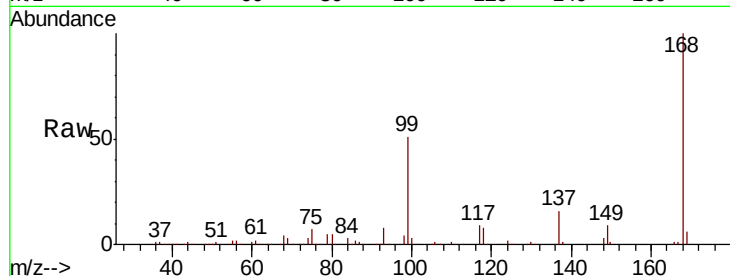
RB4-SRI3

Tgt Ion:168 Resp: 271167

Ion Ratio Lower Upper

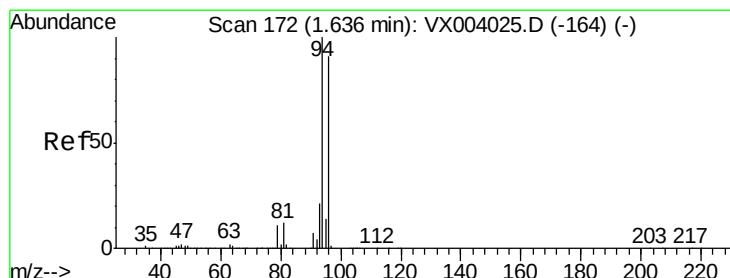
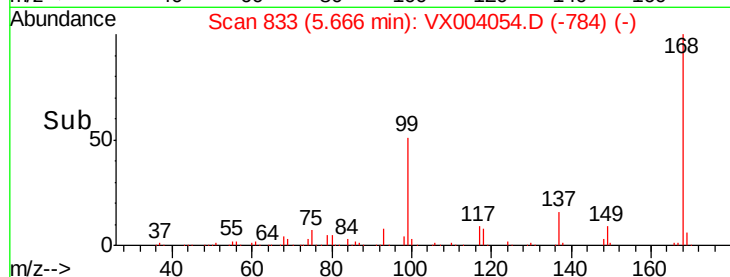
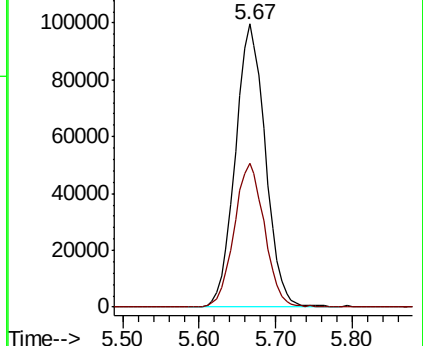
168 100

99 50.7 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.417 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX004054.D

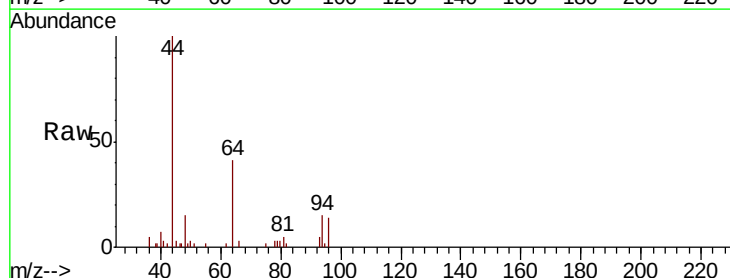
Acq: 15 Aug 2018 03:27

Tgt Ion: 94 Resp: 1056

Ion Ratio Lower Upper

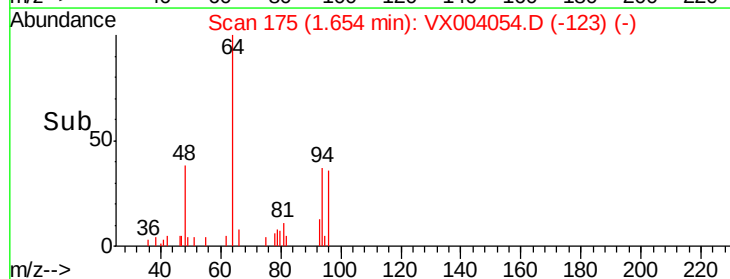
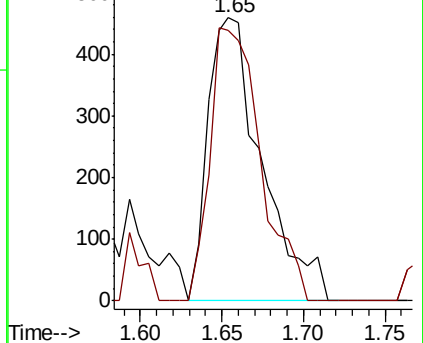
94 100

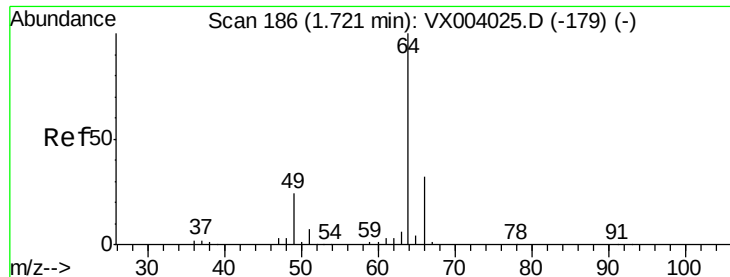
96 95.4 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. -0.07 min

Lab File: VX004054.D

Acq: 15 Aug 2018 03:27

Instrument :

MSVOA_X

ClientSampleId :

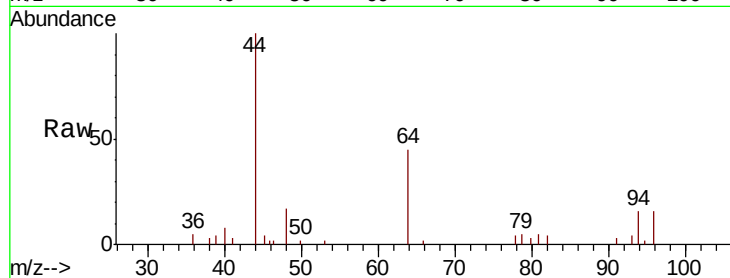
RB4-SRI3

Tgt Ion: 64 Resp: 321

Ion Ratio Lower Upper

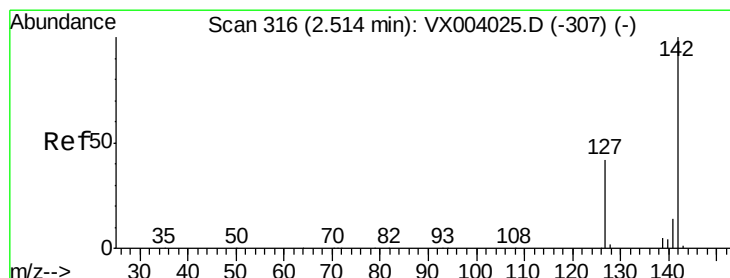
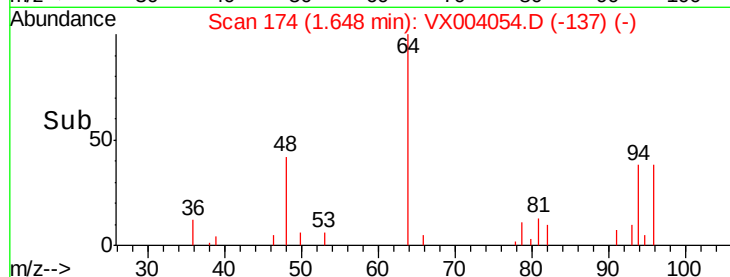
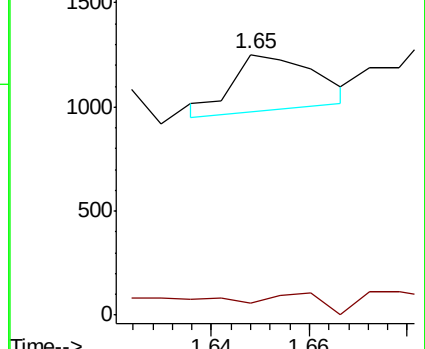
64 100

66 24.4 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 5.200 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX004054.D

Acq: 15 Aug 2018 03:27

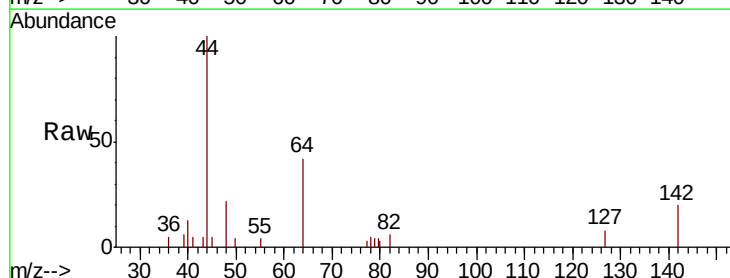
Tgt Ion: 142 Resp: 690

Ion Ratio Lower Upper

142 100

127 37.8 33.1 49.7

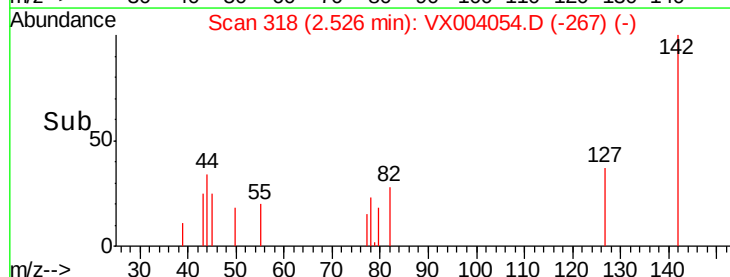
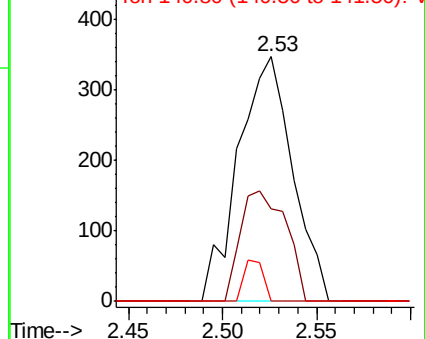
141 5.9 11.1 16.7#

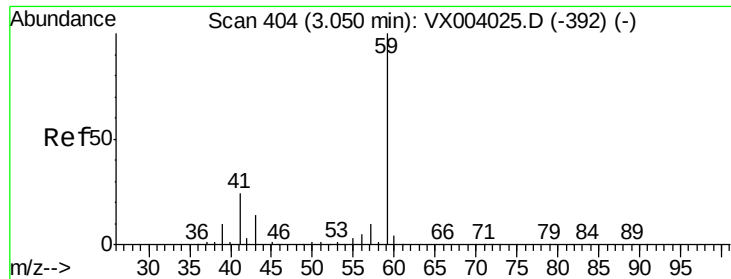


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

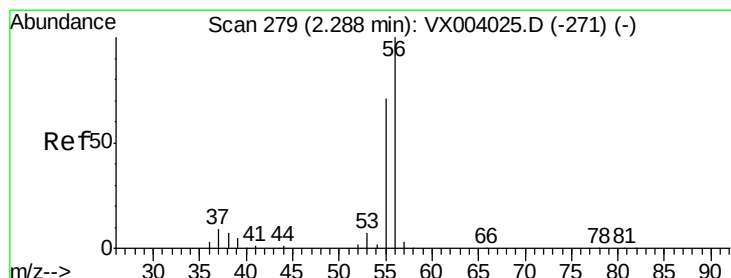
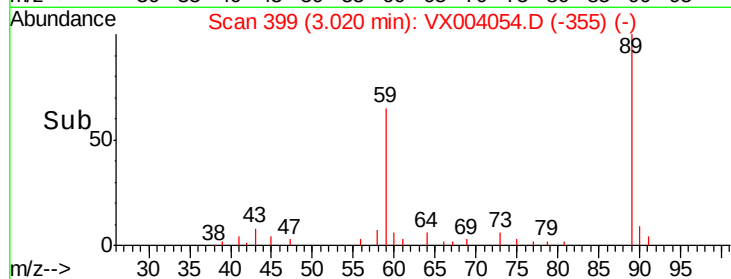
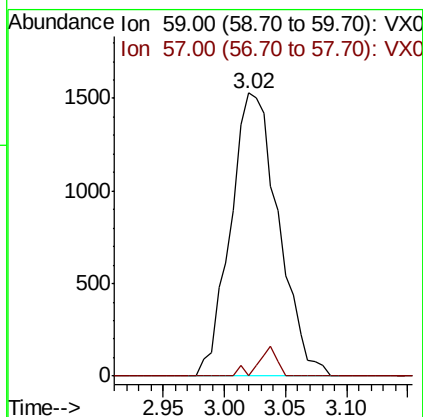
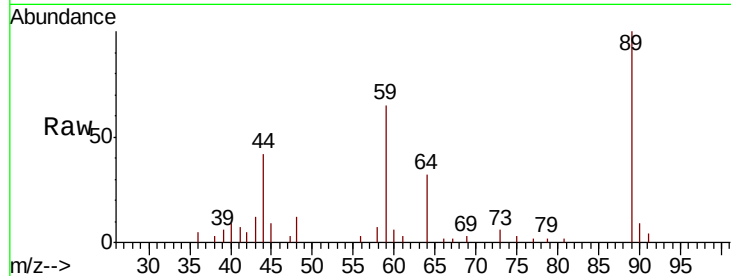




#11
Tert butyl alcohol
Concen: 5.407 ug/l
RT: 3.02 min Scan# 399
Delta R.T. -0.03 min
Lab File: VX004054.D
Acq: 15 Aug 2018 03:27

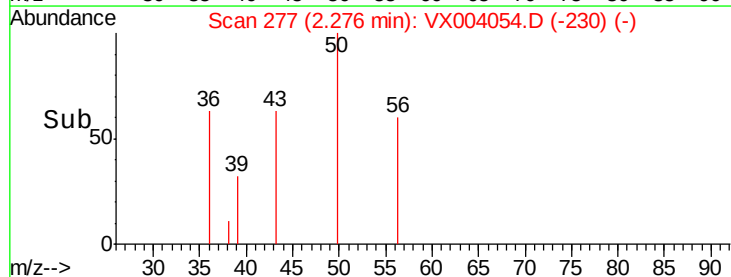
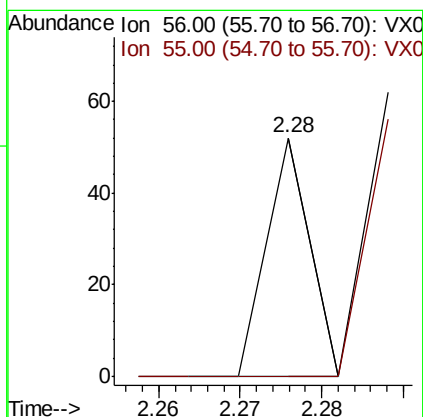
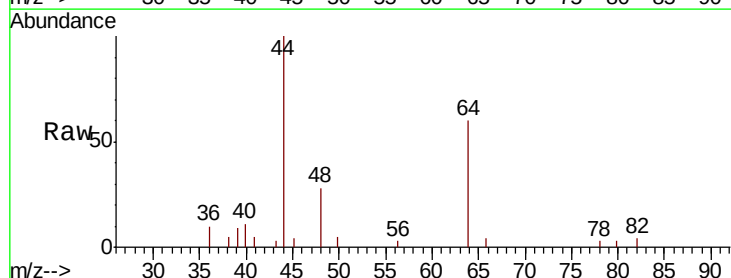
Instrument :
MSVOA_X
ClientSampleId :
RB4-SRI3

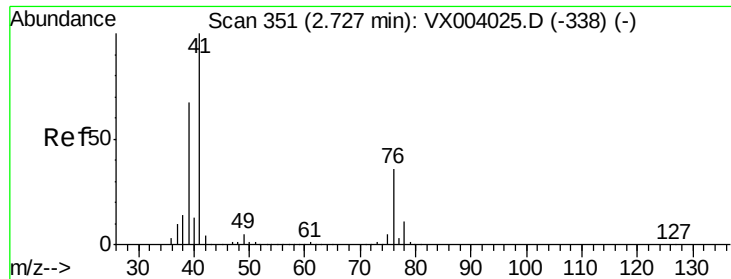
Tgt Ion: 59 Resp: 4160
Ion Ratio Lower Upper
59 100
57 4.1 8.1 12.1#



#13
Acrolein
Concen: 10.984 ug/l
RT: 2.28 min Scan# 277
Delta R.T. -0.01 min
Lab File: VX004054.D
Acq: 15 Aug 2018 03:27

Tgt Ion: 56 Resp: 19
Ion Ratio Lower Upper
56 100
55 105.3 56.1 84.1#

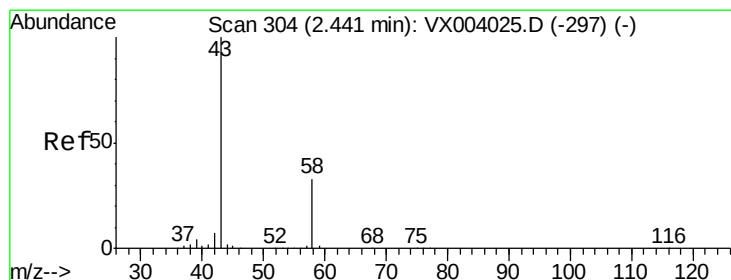
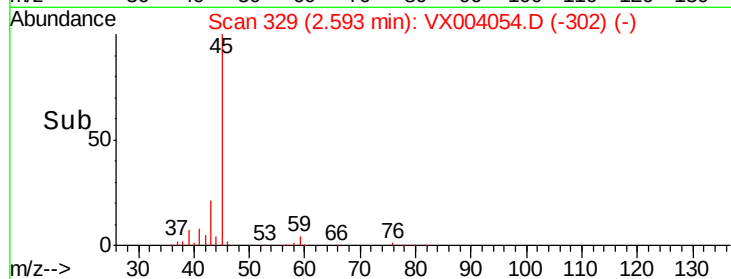
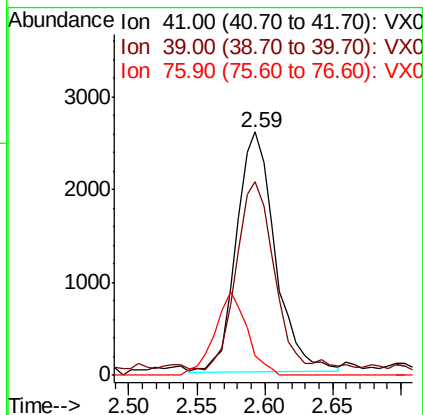
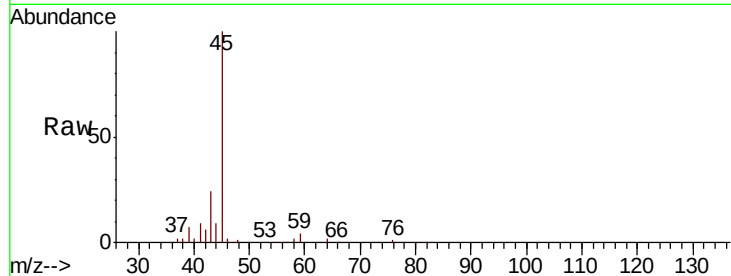




#14
 Allyl chloride
 Concen: 0.948 ug/l
 RT: 2.59 min Scan# 329
 Delta R.T. -0.13 min
 Lab File: VX004054.D
 Acq: 15 Aug 2018 03:27

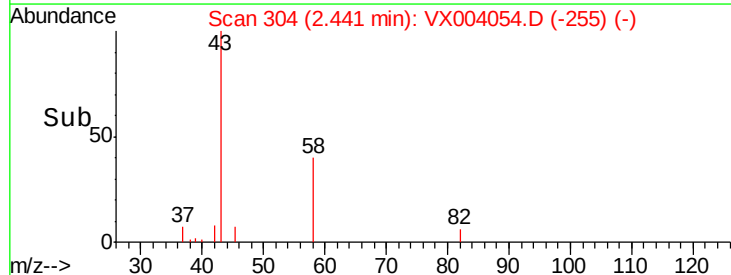
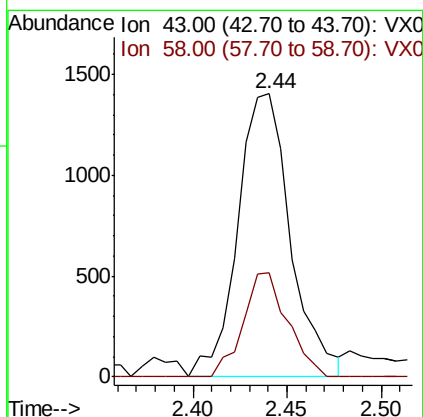
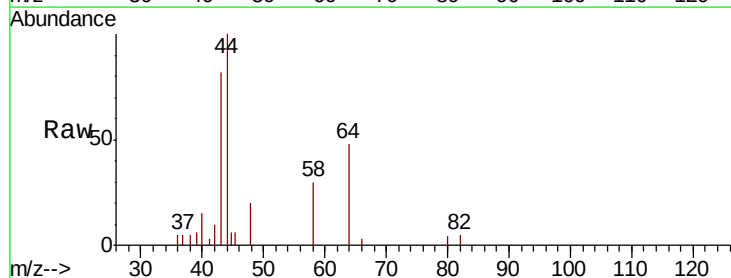
Instrument :
 MSVOA_X
 ClientSampleId :
 RB4-SRI3

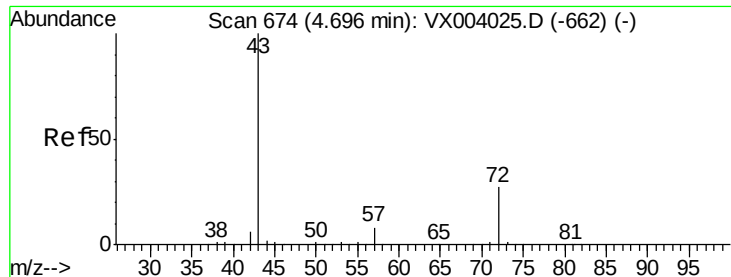
Tgt Ion: 41 Resp: 5148
 Ion Ratio Lower Upper
 41 100
 39 75.1 47.4 71.0#
 76 28.8 26.0 39.0



#16
 Acetone
 Concen: 1.375 ug/l
 RT: 2.44 min Scan# 304
 Delta R.T. -0.00 min
 Lab File: VX004054.D
 Acq: 15 Aug 2018 03:27

Tgt Ion: 43 Resp: 2731
 Ion Ratio Lower Upper
 43 100
 58 37.0 26.4 39.6





#25

2-Butanone

Concen: 1.136 ug/l

RT: 4.73 min Scan# 680

Delta R.T. 0.04 min

Lab File: VX004054.D

Acq: 15 Aug 2018 03:27

Instrument :

MSVOA_X

ClientSampled :

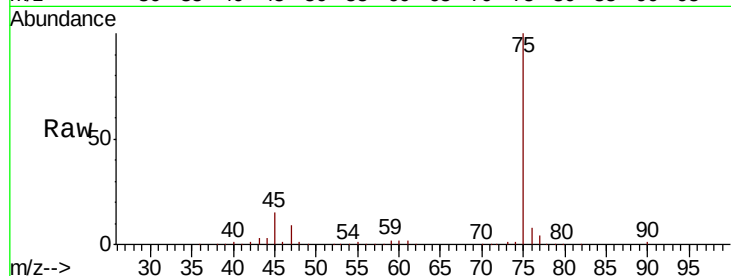
RB4-SRI3

Tgt Ion: 43 Resp: 3670

Ion Ratio Lower Upper

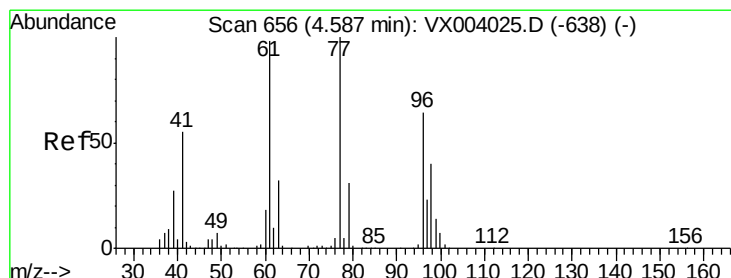
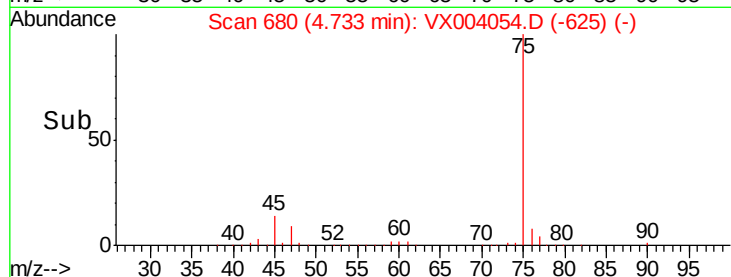
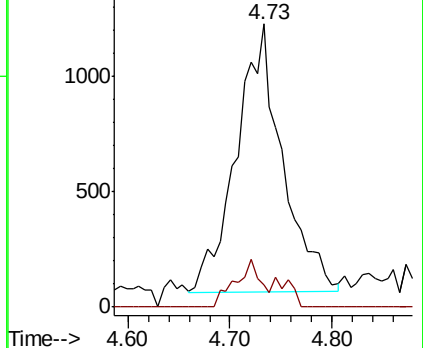
43 100

72 8.4 21.4 32.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 1.207 ug/l

RT: 4.73 min Scan# 679

Delta R.T. 0.14 min

Lab File: VX004054.D

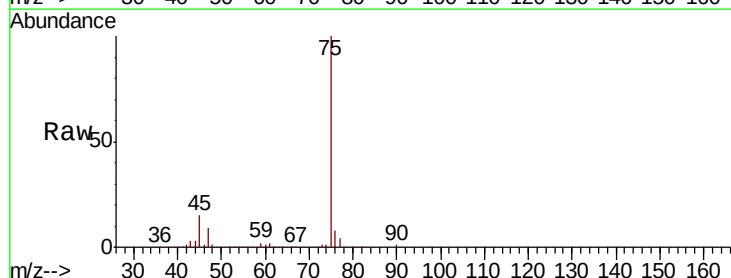
Acq: 15 Aug 2018 03:27

Tgt Ion: 77 Resp: 5779

Ion Ratio Lower Upper

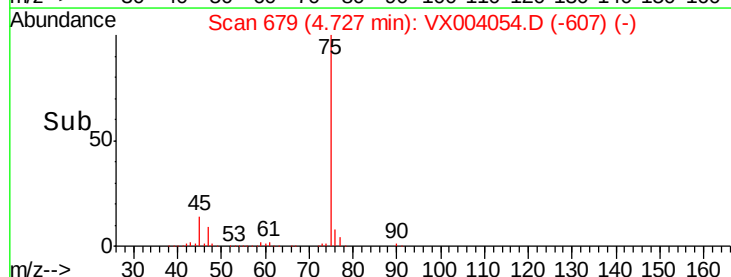
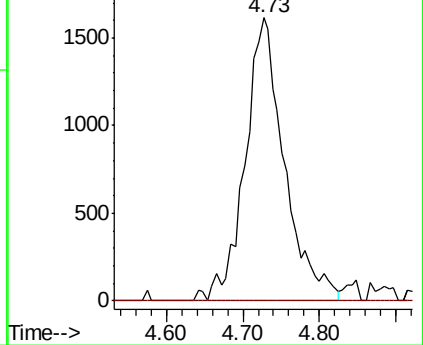
77 100

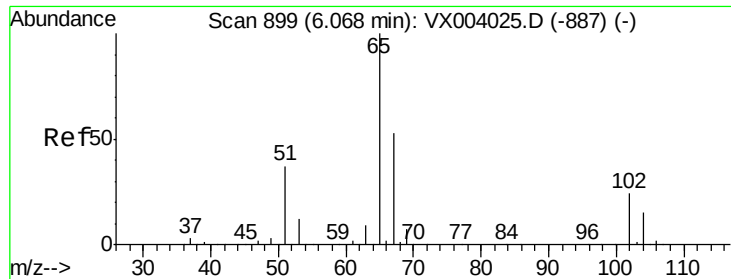
97 0.0 11.9 35.9#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

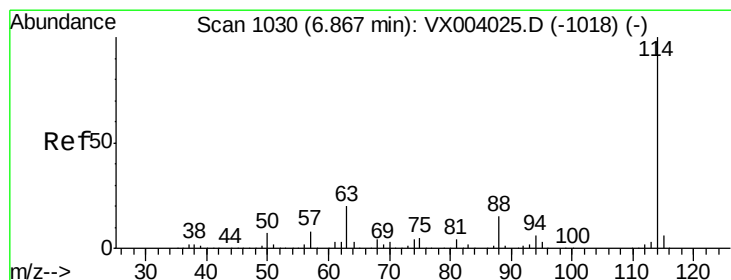
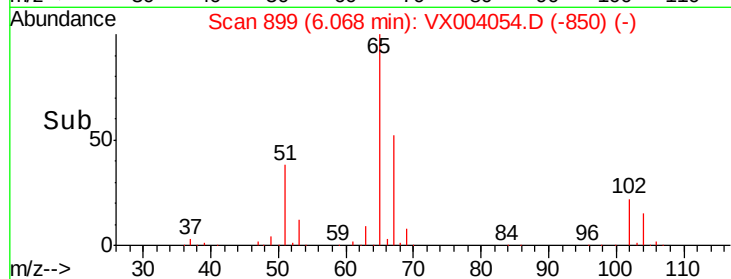
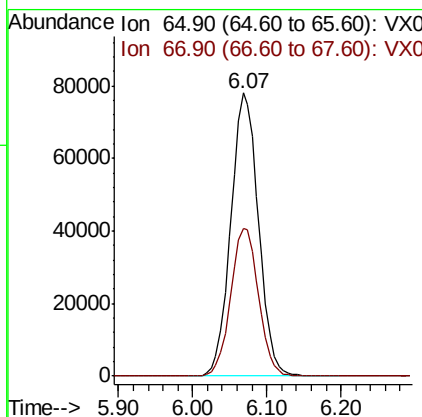
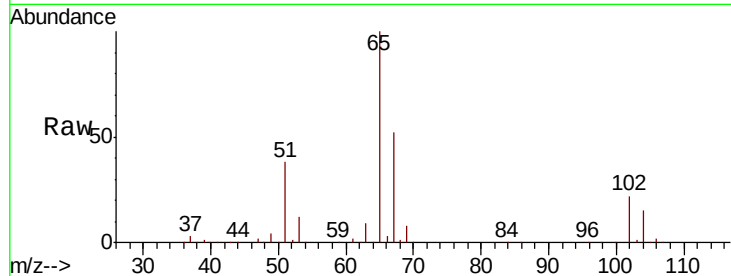




#33
 1,2-Dichloroethane-d4
 Concen: 53.044 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. -0.00 min
 Lab File: VX004054.D
 Acq: 15 Aug 2018 03:27

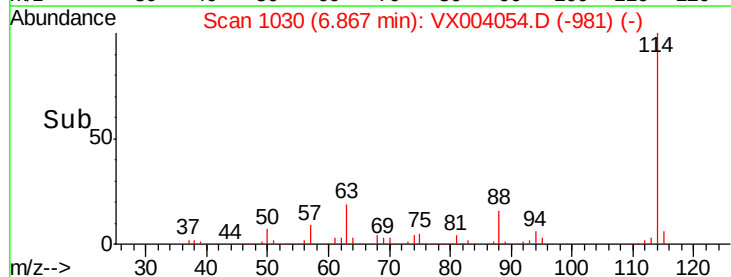
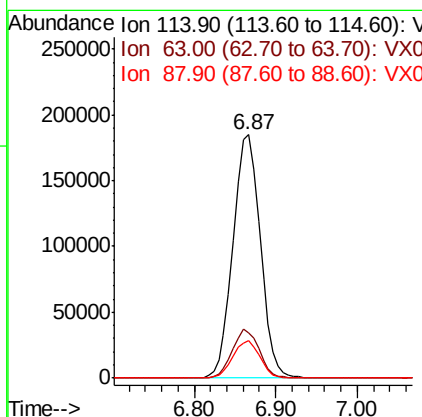
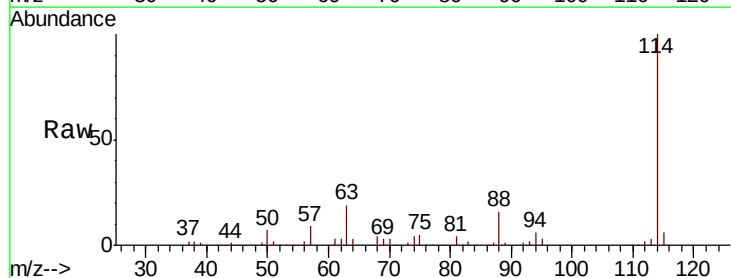
Instrument :
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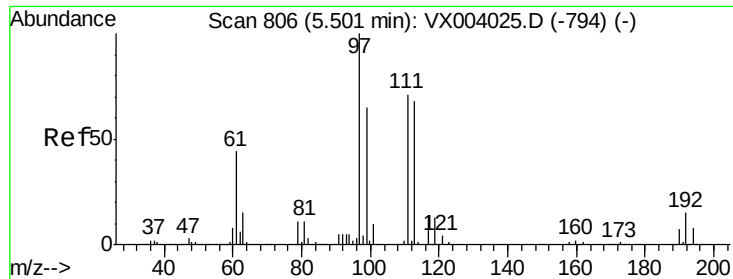
Tgt Ion: 65 Resp: 202660
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX004054.D
 Acq: 15 Aug 2018 03:27

Tgt Ion: 114 Resp: 429214
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 39.0
 88 15.6 0.0 32.0





#35

Dibromofluoromethane

Concen: 51.761 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX004054.D

Acq: 15 Aug 2018 03:27

Instrument :

MSVOA_X

ClientSampleId :

RB4-SRI3

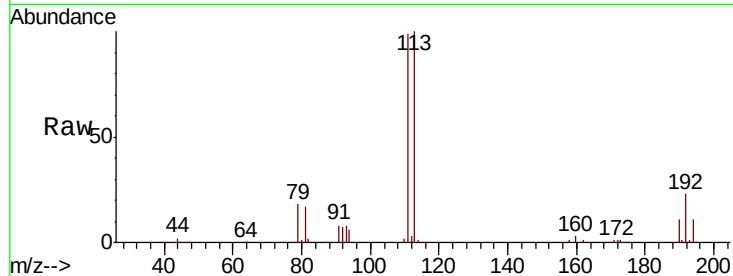
Tgt Ion:113 Resp: 166273

Ion Ratio Lower Upper

113 100

111 101.9 82.0 123.0

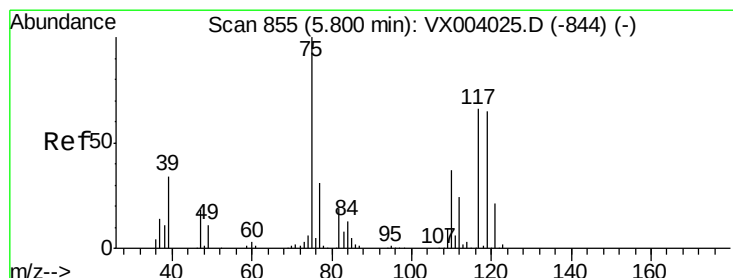
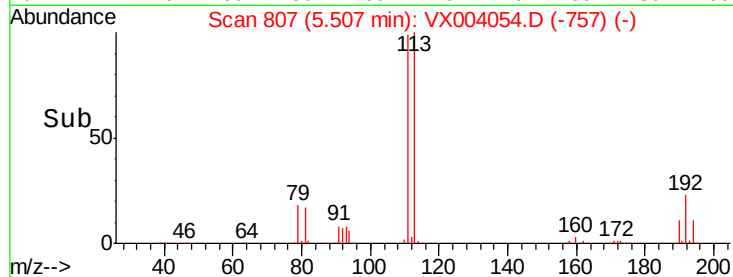
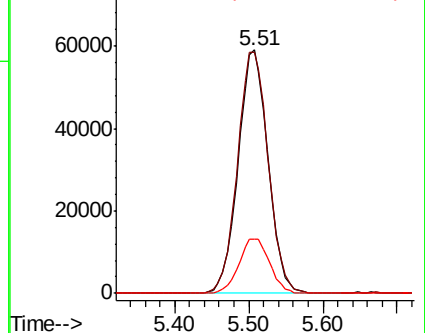
192 23.1 19.0 28.4



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: 3.859 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX004054.D

Acq: 15 Aug 2018 03:27

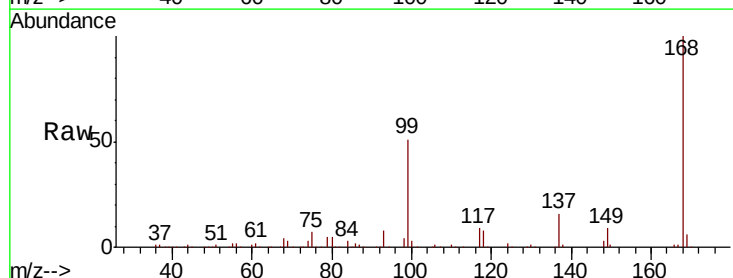
Tgt Ion: 75 Resp: 18850

Ion Ratio Lower Upper

75 100

110 9.2 18.2 54.6#

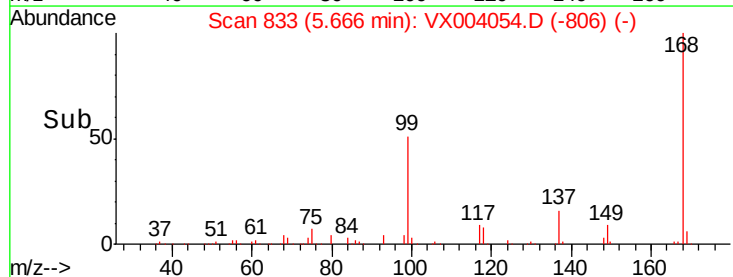
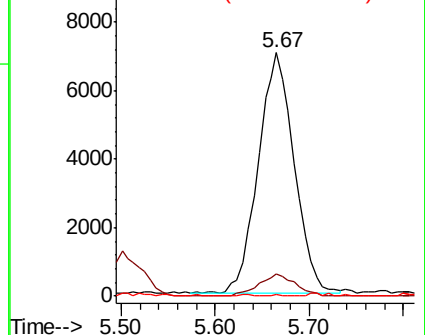
77 0.1 25.0 37.4#

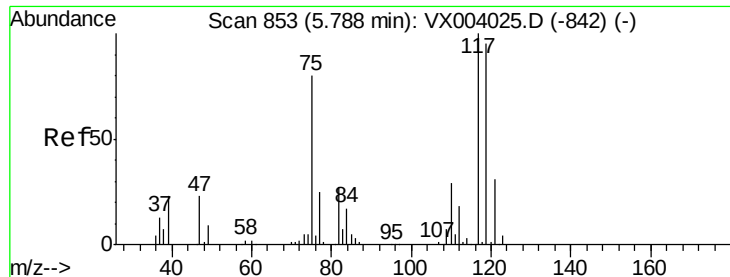


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.173 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX004054.D

Acq: 15 Aug 2018 03:27

Instrument :

MSVOA_X

ClientSampleId :

RB4-SRI3

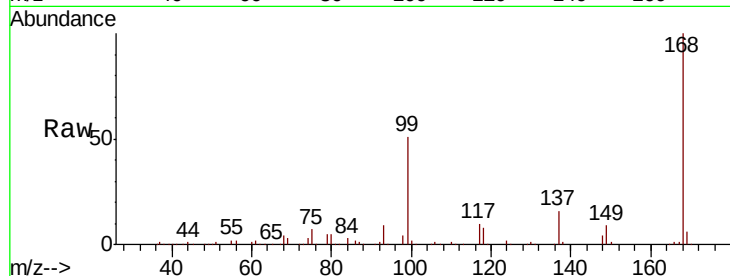
Tgt Ion: 117 Resp: 24547

Ion Ratio Lower Upper

117 100

119 4.6 79.5 119.3#

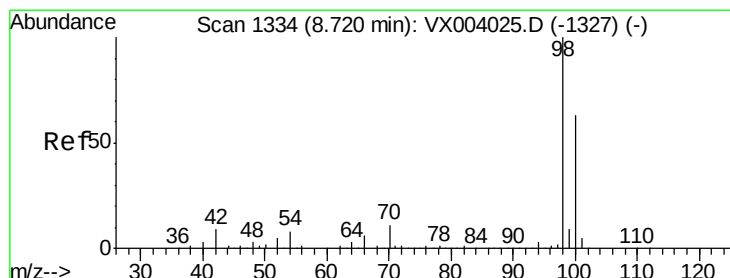
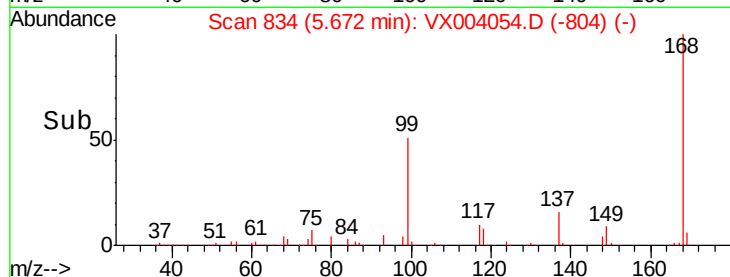
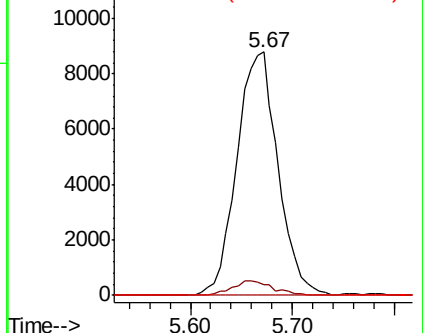
121 0.0 25.0 37.4#



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



#50

Toluene-d8

Concen: 47.214 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX004054.D

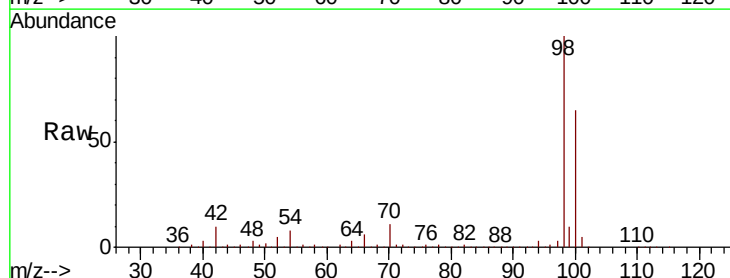
Acq: 15 Aug 2018 03:27

Tgt Ion: 98 Resp: 614928

Ion Ratio Lower Upper

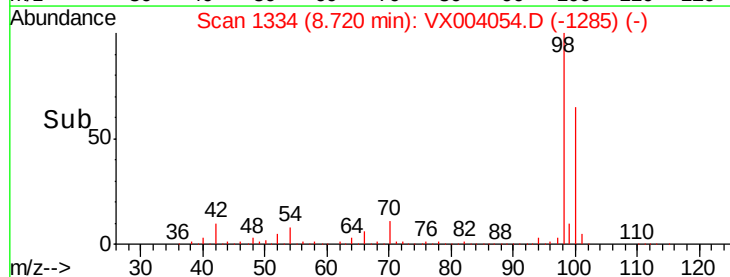
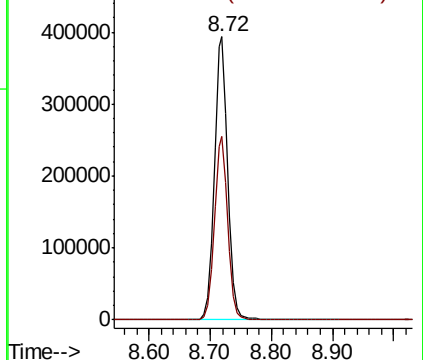
98 100

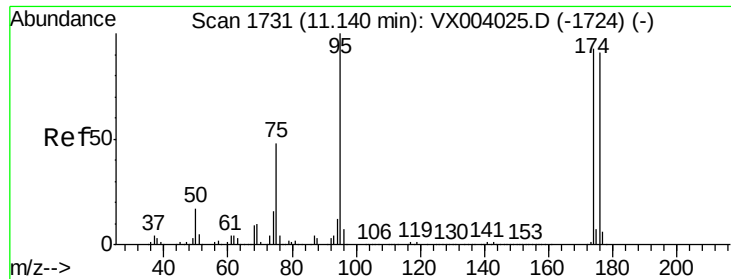
100 65.2 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 44.009 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004054.D

Acq: 15 Aug 2018 03:27

Instrument :

MSVOA_X

ClientSampled :

RB4-SRI3

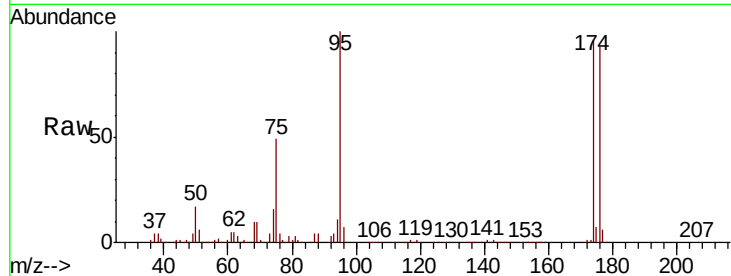
Tgt Ion: 95 Resp: 207888

Ion Ratio Lower Upper

95 100

174 92.1 0.0 182.8

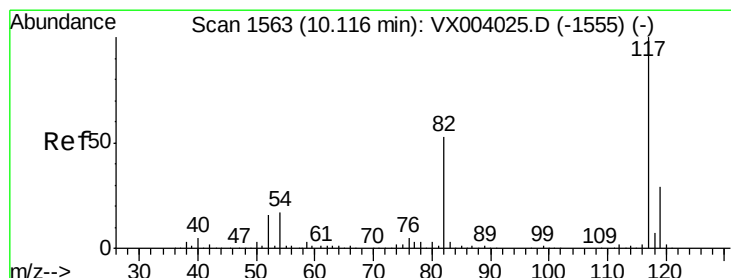
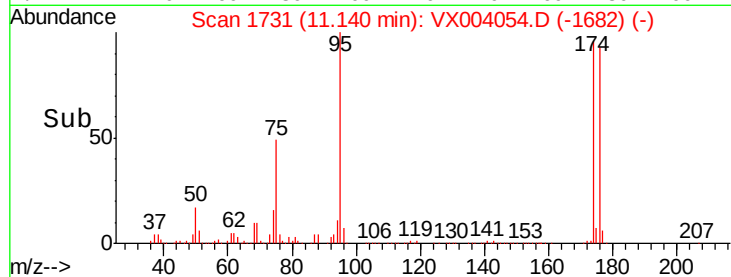
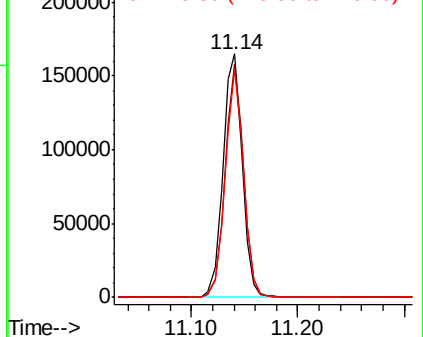
176 88.8 0.0 179.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX004054.D

Acq: 15 Aug 2018 03:27

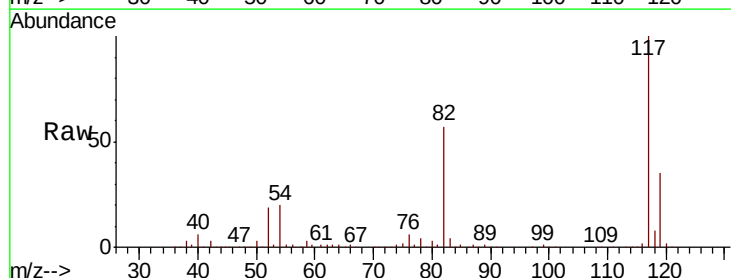
Tgt Ion: 117 Resp: 398925

Ion Ratio Lower Upper

117 100

82 57.3 45.4 68.0

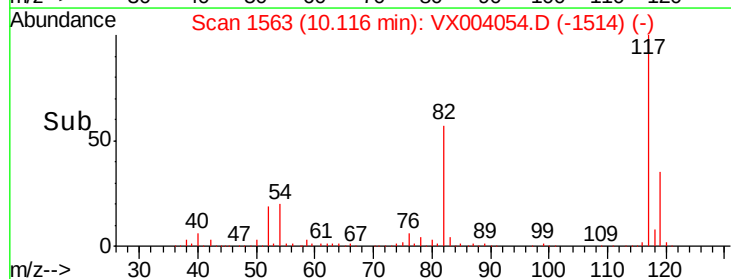
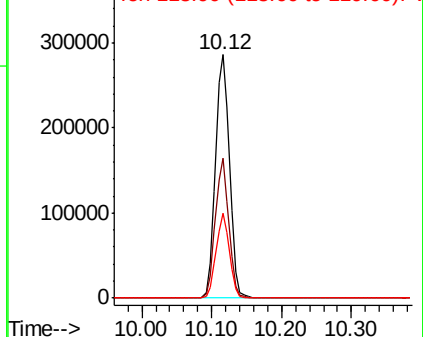
119 34.8 26.6 40.0

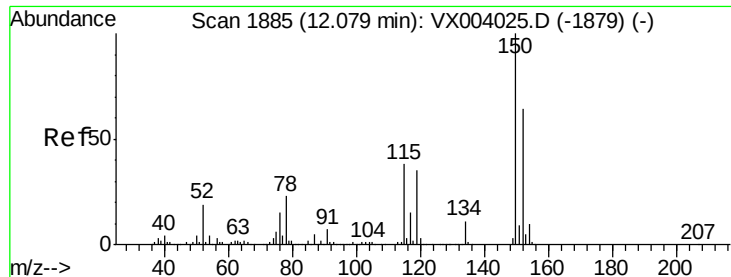


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004054.D

Acq: 15 Aug 2018 03:27

Instrument :

MSVOA_X

ClientSampleId :

RB4-SRI3

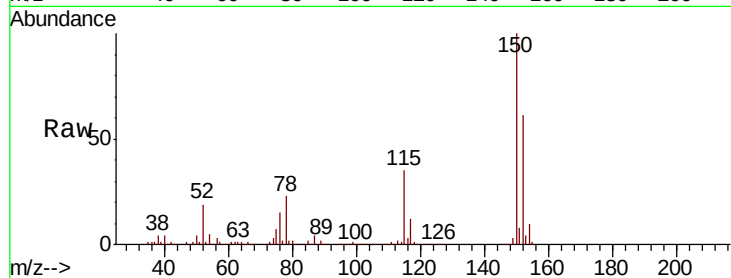
Tgt Ion:152 Resp: 216316

Ion Ratio Lower Upper

152 100

115 55.7 39.1 117.3

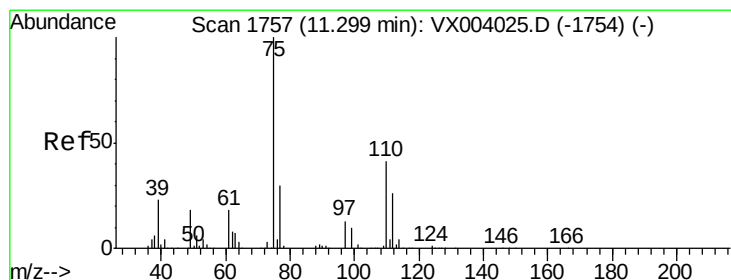
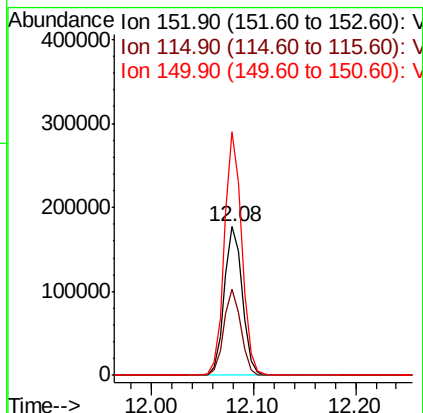
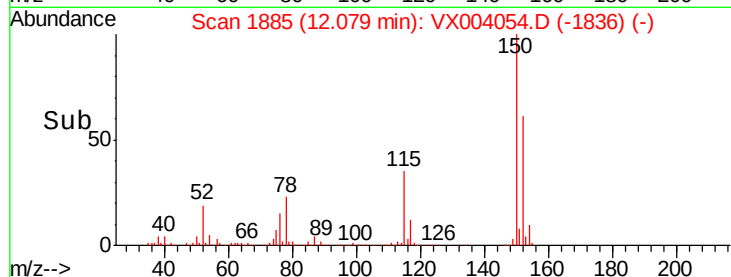
150 157.8 0.0 349.2



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: 23.241 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004054.D

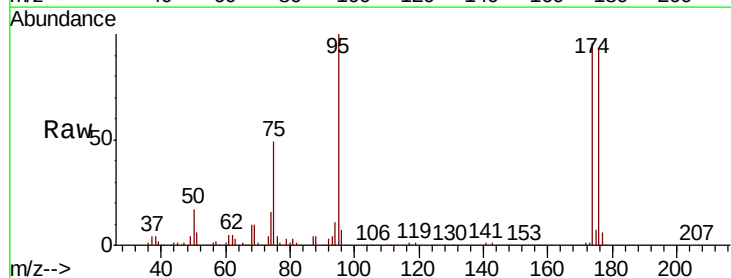
Acq: 15 Aug 2018 03:27

Tgt Ion: 75 Resp: 100822

Ion Ratio Lower Upper

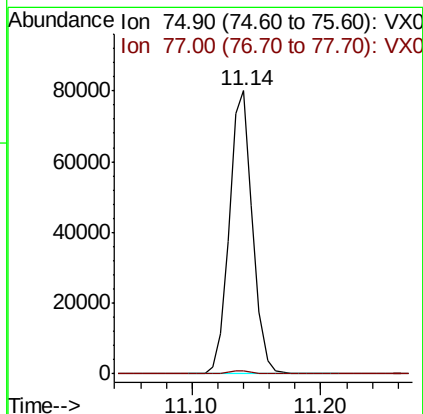
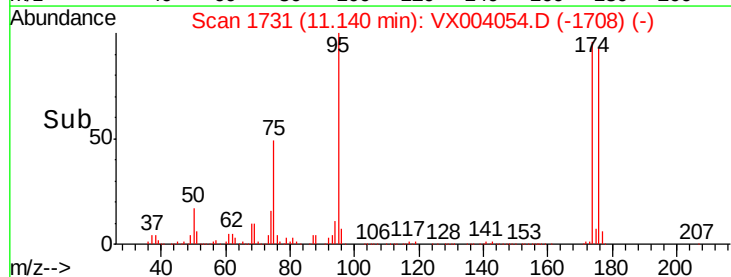
75 100

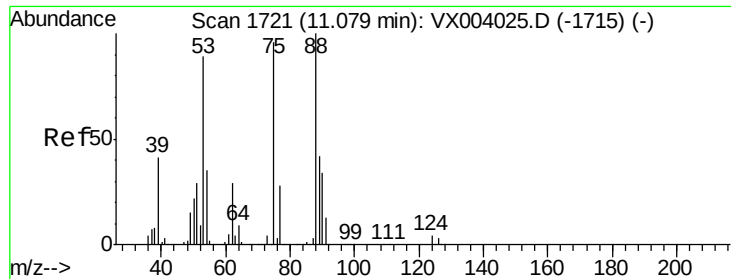
77 1.3 20.8 62.5#



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: 71.944 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX004054.D

Acq: 15 Aug 2018 03:27

Instrument :

MSVOA_X

ClientSampleId :

RB4-SRI3

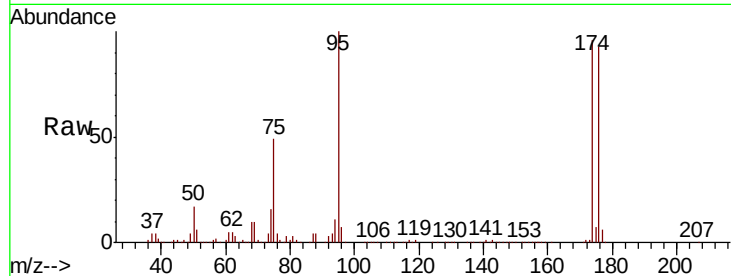
Tgt Ion: 75 Resp: 100822

Ion Ratio Lower Upper

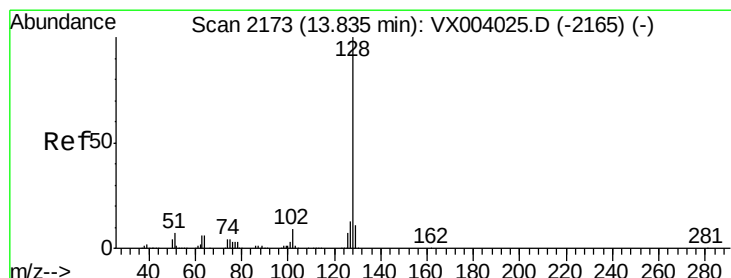
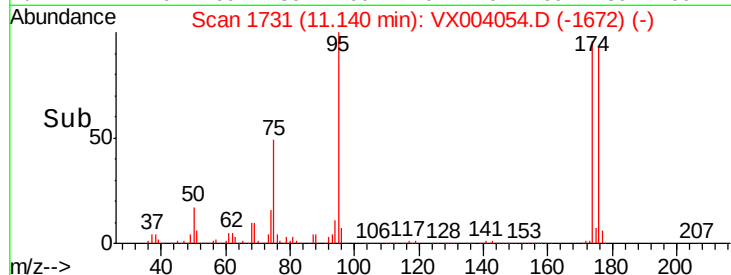
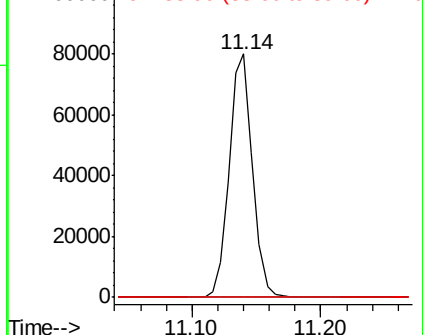
75 100

53 0.2 80.3 120.5#

89 0.0 37.8 56.8#



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



#95

Naphthalene

Concen: 1.178 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. 0.00 min

Lab File: VX004054.D

Acq: 15 Aug 2018 03:27

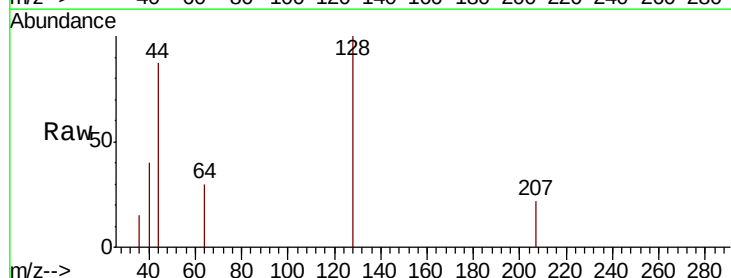
Tgt Ion: 128 Resp: 529

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

