

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070318\
 Data File : VX003162.D
 Acq On : 03 Jul 2018 21:14
 Operator : JC/MD
 Sample : J3813-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 I2-60-SRI3

Quant Time: Jul 04 03:19:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	262185	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	368334	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	345250	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	197205	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	169675	46.82	ug/l	0.00
Spiked Amount			Recovery	=	93.64%	
35) Dibromofluoromethane	5.51	113	143062	49.05	ug/l	0.00
Spiked Amount			Recovery	=	98.10%	
50) Toluene-d8	8.72	98	518719	48.70	ug/l	0.00
Spiked Amount			Recovery	=	97.40%	
62) 4-Bromofluorobenzene	11.14	95	183792	44.74	ug/l	0.00
Spiked Amount			Recovery	=	89.48%	

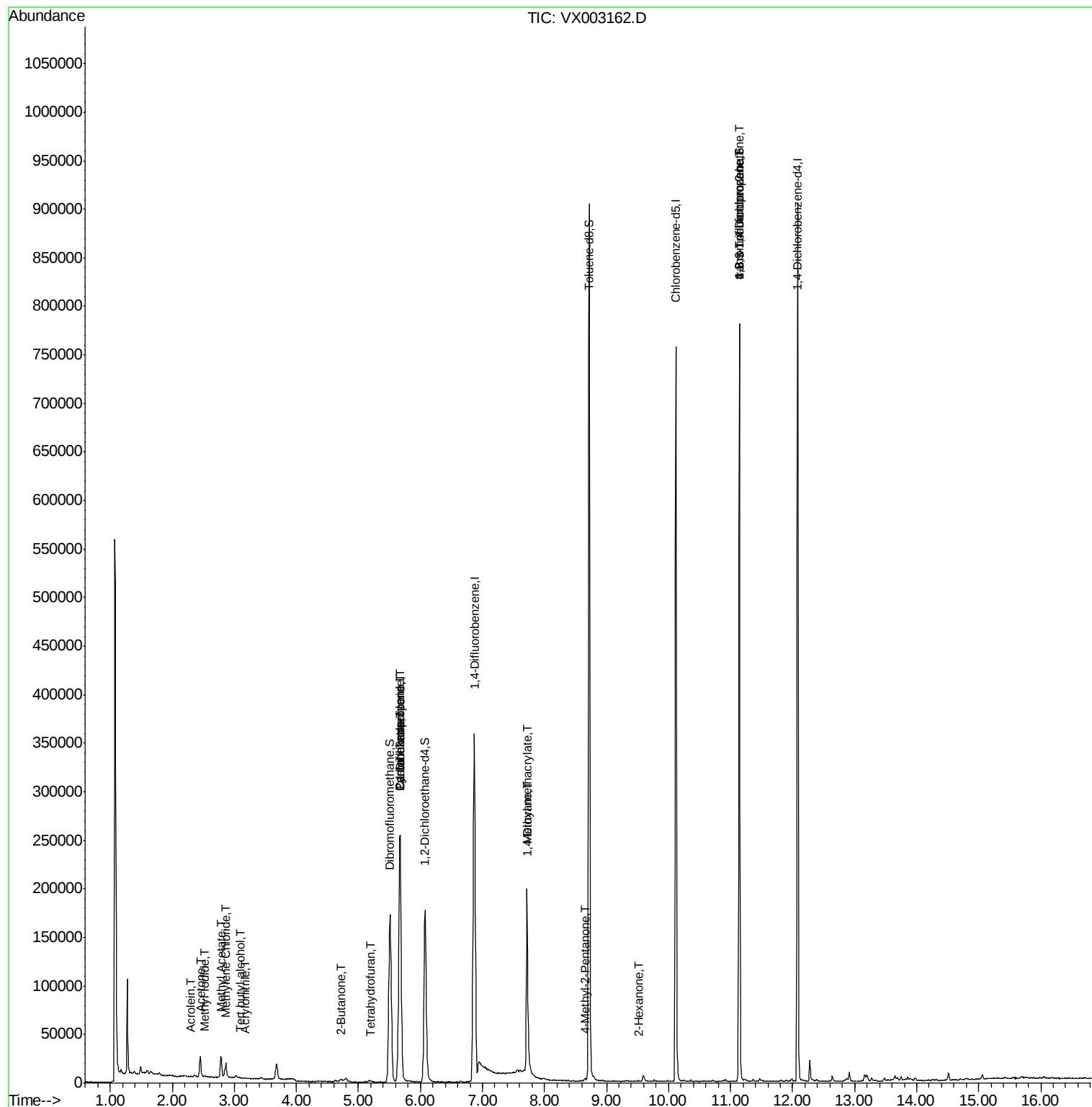
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	83	Below Cal	#	43
3) Chloromethane	1.32	50	470	Below Cal	#	81
5) Bromomethane	1.65	94	2068	Below Cal		100
6) Chloroethane	1.70	64	386	Below Cal	#	64
10) Methyl Iodide	2.53	142	1514	6.68	ug/l	# 96
11) Tert butyl alcohol	3.09	59	1378	1.91	ug/l	# 94
13) Acrolein	2.29	56	320	5.02	ug/l	# 65
15) Acrylonitrile	3.16	53	361	0.23	ug/l	# 31
16) Acetone	2.45	43	23304	15.53	ug/l	93
18) Methyl Acetate	2.78	43	27149	6.47	ug/l	97
20) Methylene Chloride	2.86	84	6790	2.32	ug/l	94
25) 2-Butanone	4.72	43	4339	1.95	ug/l	95
29) Tetrahydrofuran	5.19	42	1613	1.13	ug/l	# 63
31) Cyclohexane	5.67	56	4871	1.07	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	16944	4.19	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	22879	5.16	ug/l	# 15
48) Methyl methacrylate	7.71	41	6589	1.75	ug/l	# 18
49) 1,4-Dioxane	7.73	88	57	0.78	ug/l	# 1
51) 4-Methyl-2-Pentanone	8.65	43	2142	0.47	ug/l	90
59) 2-Hexanone	9.51	43	748	0.22	ug/l	# 63
76) 1,2,3-Trichloropropane	11.14	75	92983	26.03	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	92983	73.81	ug/l	# 7

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003162.D

Acq: 03 Jul 2018 21:14

Instrument :

MSVOA_X

ClientSampleId :

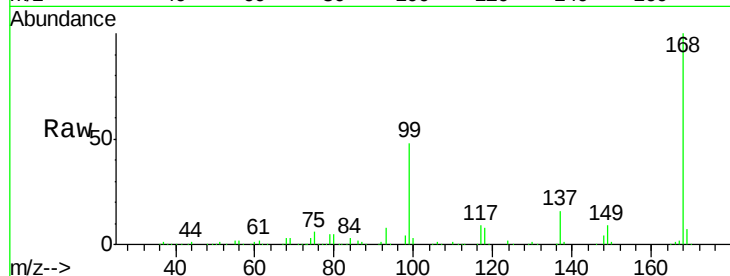
I2-60-SRI3

Tot Ion:168 Resp: 262185

Ion Ratio Lower Upper

168 100

99 47.9 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

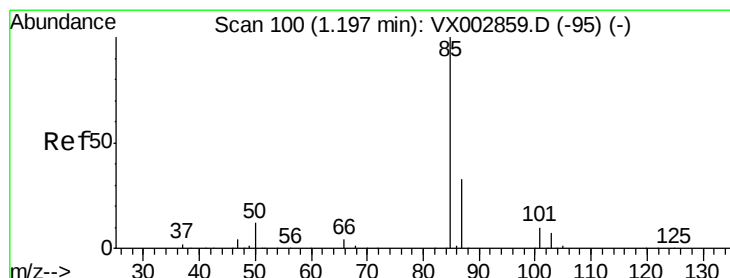
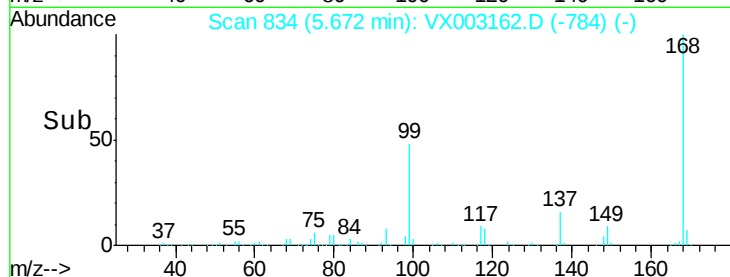
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003162.D

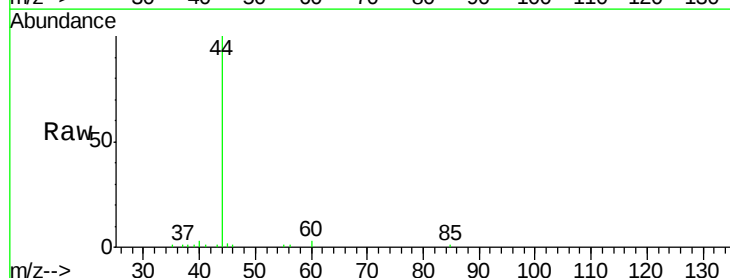
Acq: 03 Jul 2018 21:14

Tgt Ion: 85 Resp: 83

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

100

80

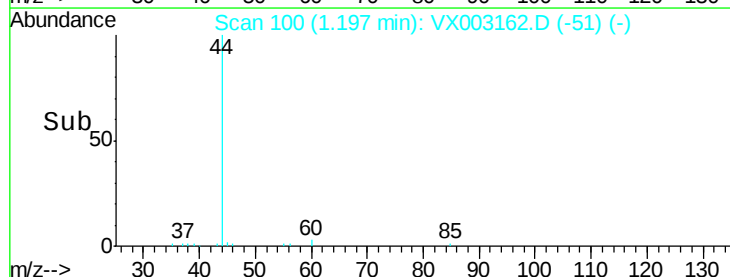
60

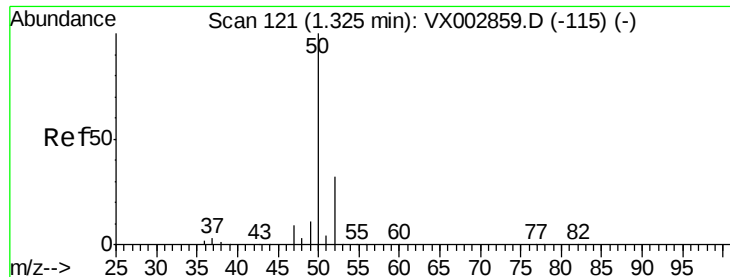
40

20

0

Time--> 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003162.D

Acq: 03 Jul 2018 21:14

Instrument :

MSVOA_X

ClientSampleId :

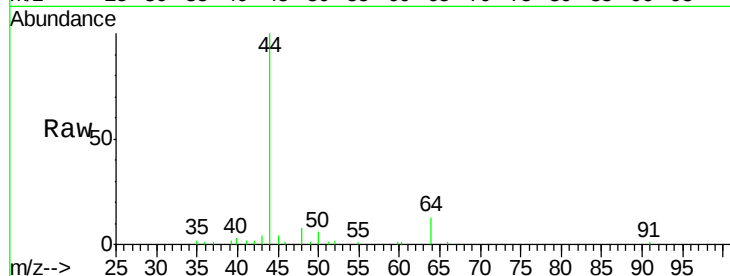
I2-60-SRI3

Tot Ion: 50 Resp: 470

Ion Ratio Lower Upper

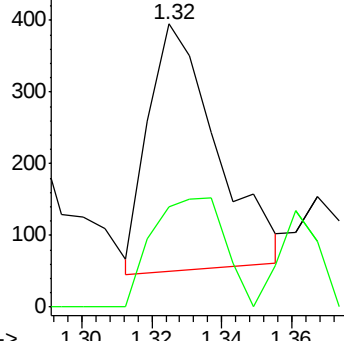
50 100

52 42.7 25.7 38.5#

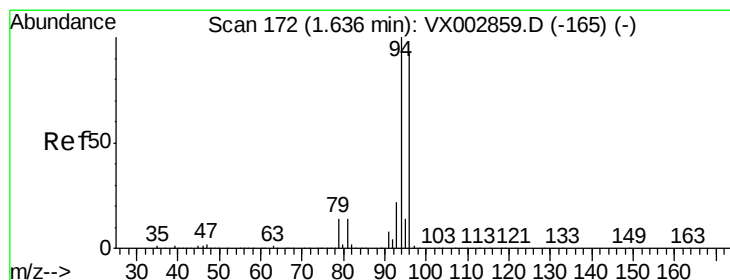
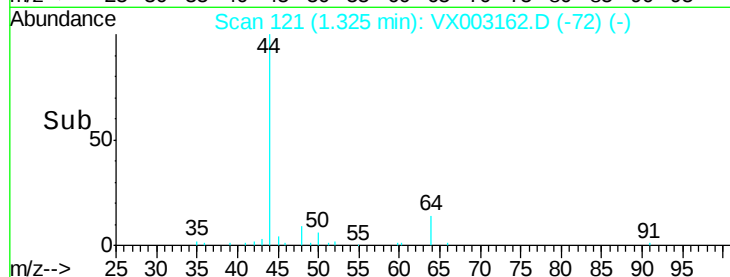


Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003162.D

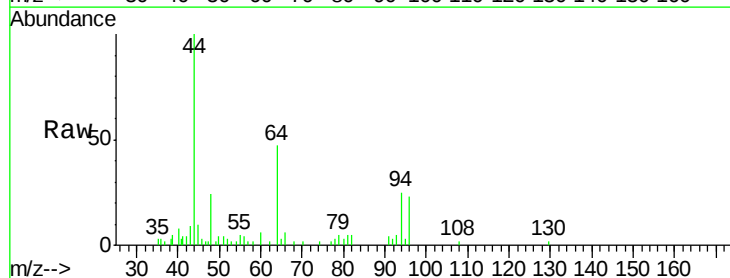
Acq: 03 Jul 2018 21:14

Tgt Ion: 94 Resp: 2068

Ion Ratio Lower Upper

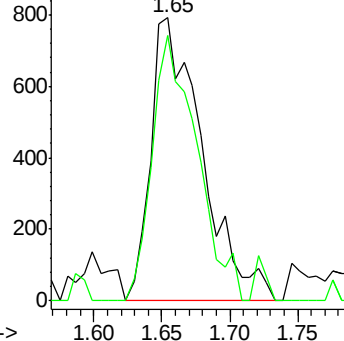
94 100

96 93.8 74.9 112.3

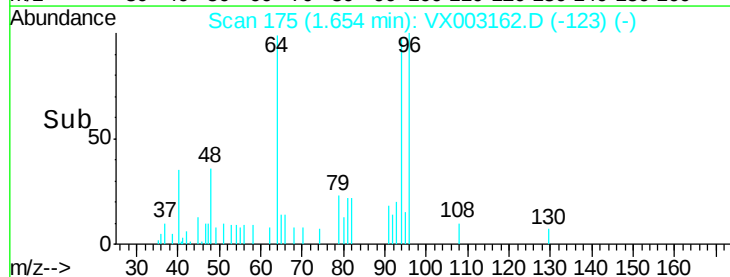


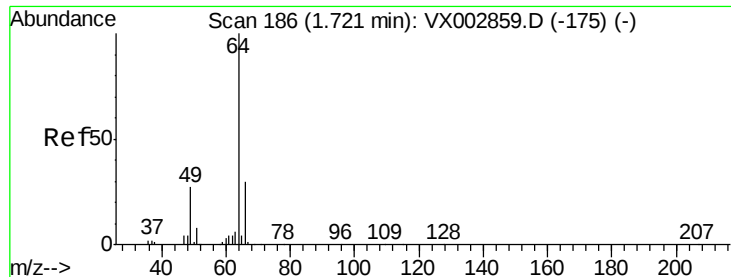
Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 182

Delta R.T. -0.02 min

Lab File: VX003162.D

Acq: 03 Jul 2018 21:14

Instrument :

MSVOA_X

ClientSampleId :

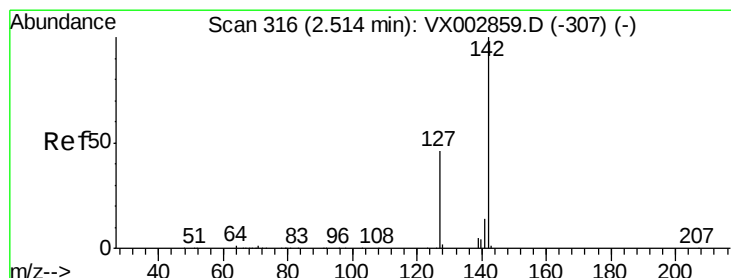
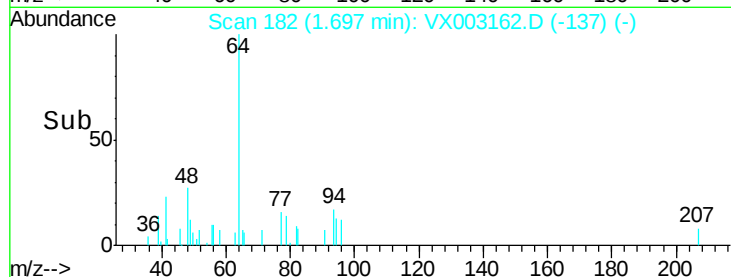
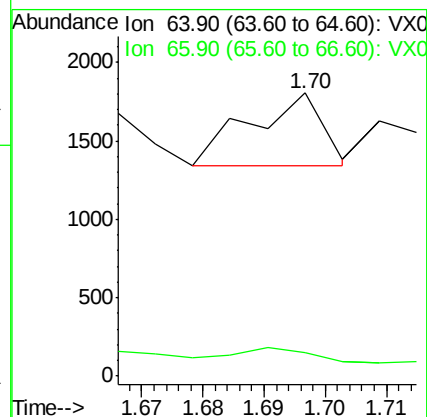
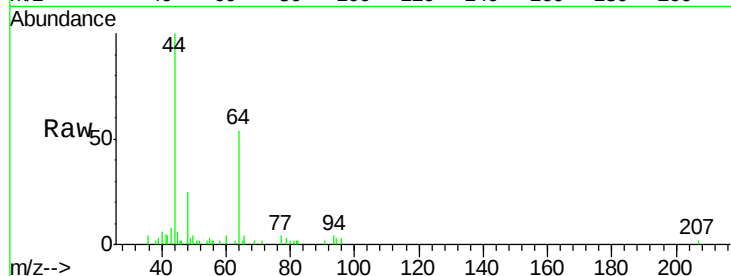
I2-60-SRI3

Tot Ion: 64 Resp: 386

Ion Ratio Lower Upper

64 100

66 12.0 25.5 38.3#



#10

Methyl Iodide

Concen: 6.68 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX003162.D

Acq: 03 Jul 2018 21:14

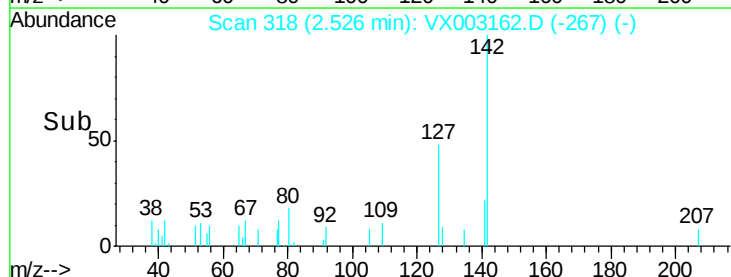
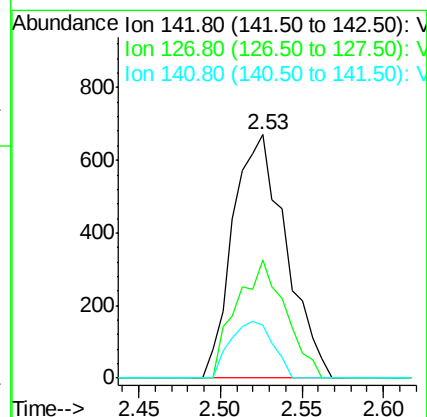
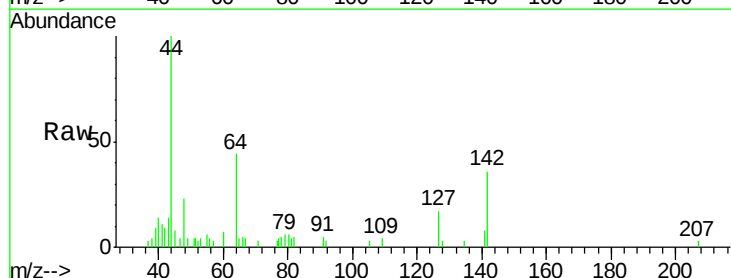
Tgt Ion:142 Resp: 1514

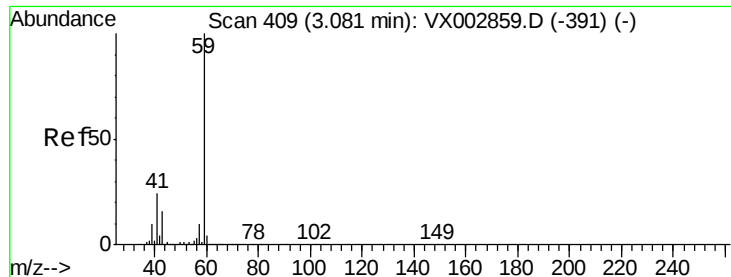
Ion Ratio Lower Upper

142 100

127 44.9 36.6 55.0

141 18.9 11.3 16.9#

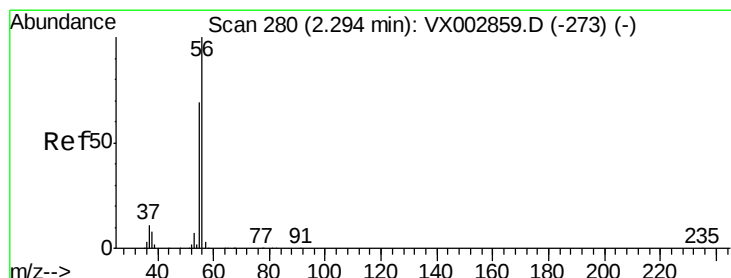
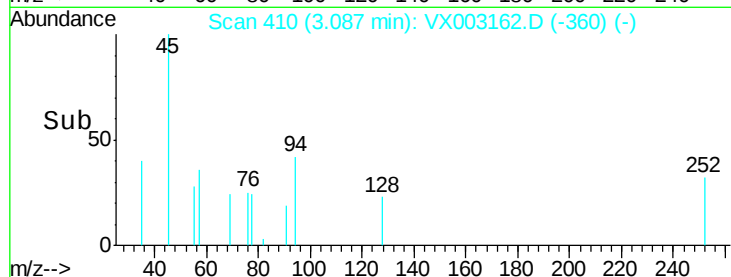
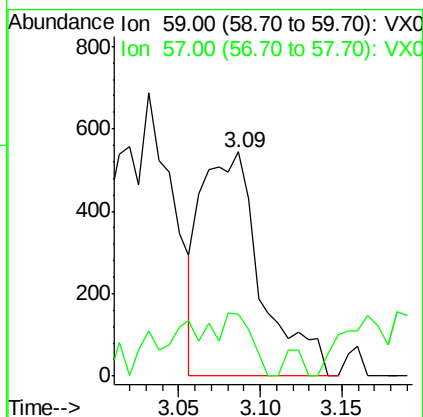
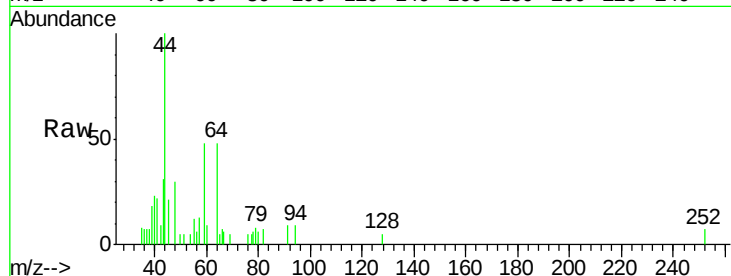




#11
Tert butvl alcohol
Concen: 1.91 ug/l
RT: 3.09 min Scan# 410
Delta R.T. 0.01 min
Lab File: VX003162.D
Acq: 03 Jul 2018 21:14

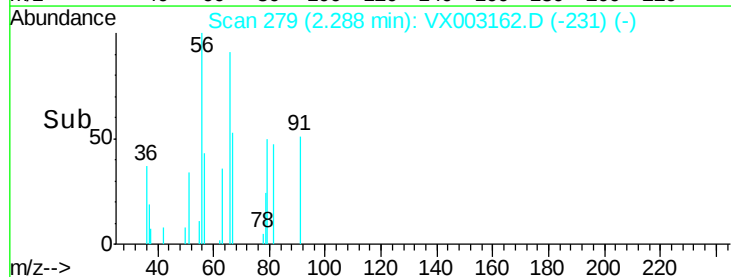
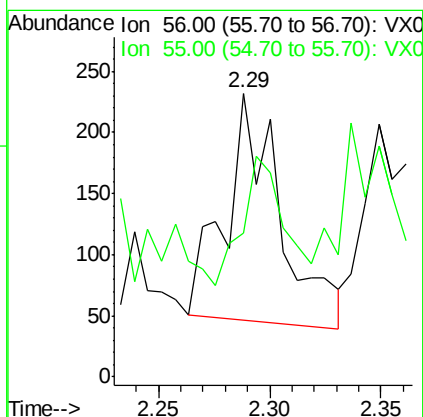
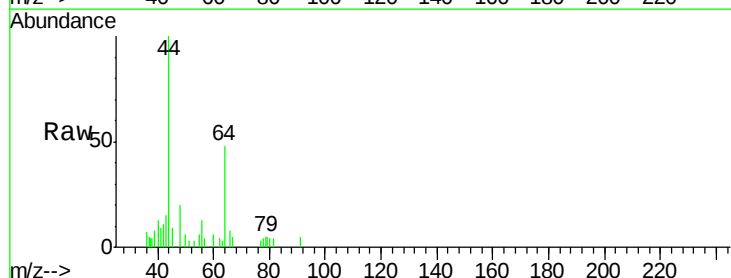
Instrument :
MSVOA_X
ClientSampled :
12-60-SRI3

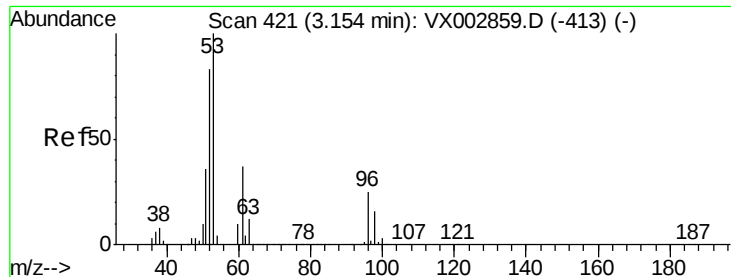
Tot Ion: 59 Resp: 1378
Ion Ratio Lower Upper
59 100
57 12.5 8.2 12.2#



#13
Acrolein
Concen: 5.02 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX003162.D
Acq: 03 Jul 2018 21:14

Tgt Ion: 56 Resp: 320
Ion Ratio Lower Upper
56 100
55 42.5 57.0 85.4#





#15

Acrylonitrile

Concen: 0.23 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX003162.D

Acq: 03 Jul 2018 21:14

Instrument :

MSVOA_X

ClientSampleId :

I2-60-SRI3

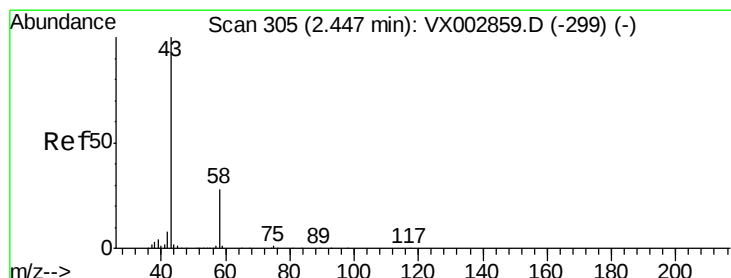
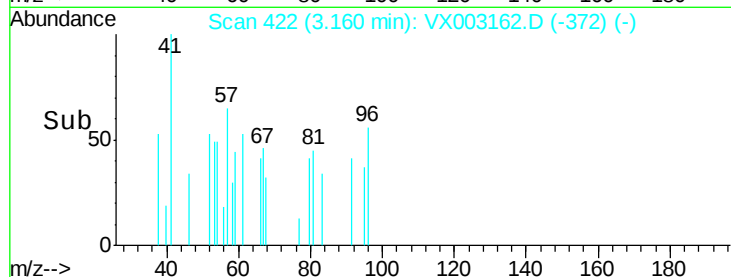
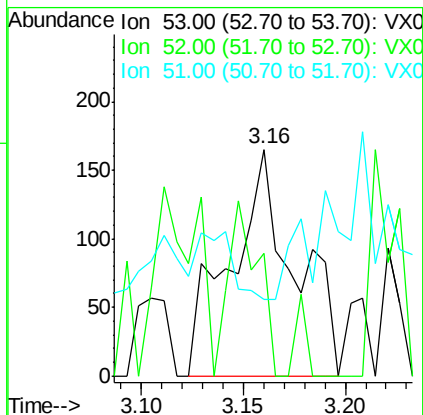
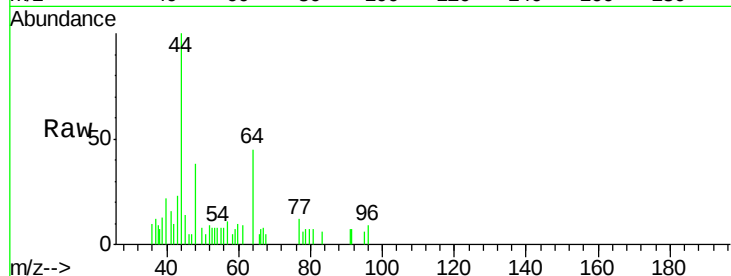
Tot Ion: 53 Resp: 361

Ion Ratio Lower Upper

53 100

52 6.1 66.7 100.1#

51 17.7 29.9 44.9#



#16

Acetone

Concen: 15.53 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX003162.D

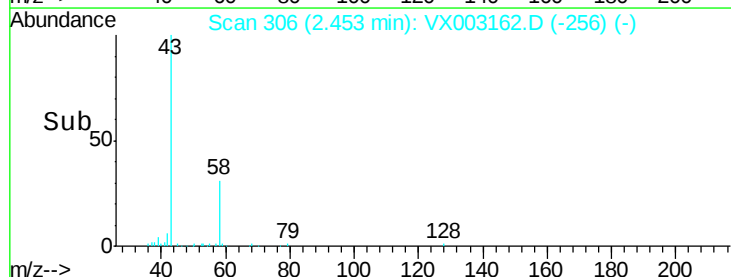
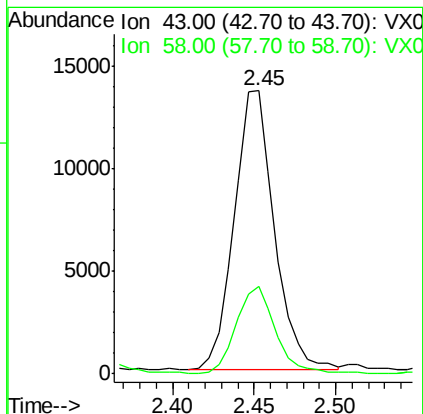
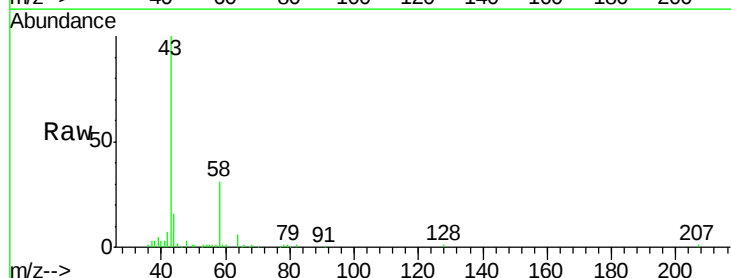
Acq: 03 Jul 2018 21:14

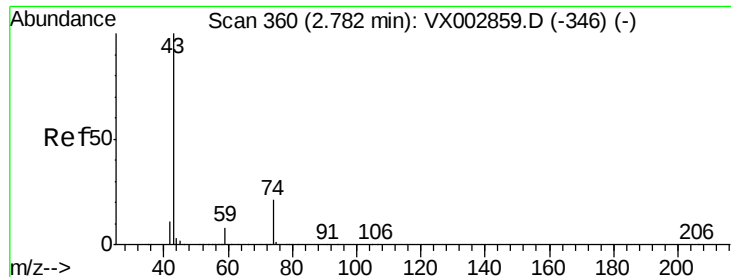
Tgt Ion: 43 Resp: 23304

Ion Ratio Lower Upper

43 100

58 31.3 22.1 33.1

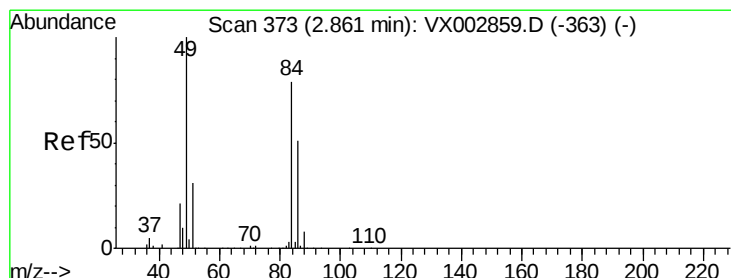
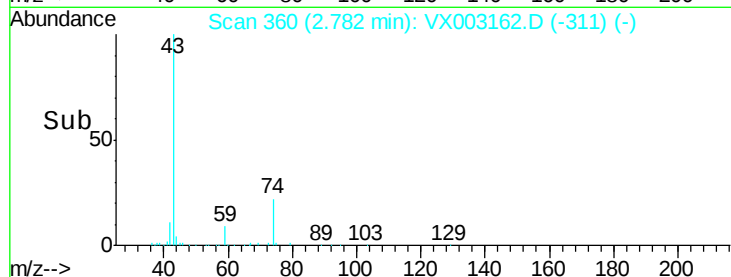
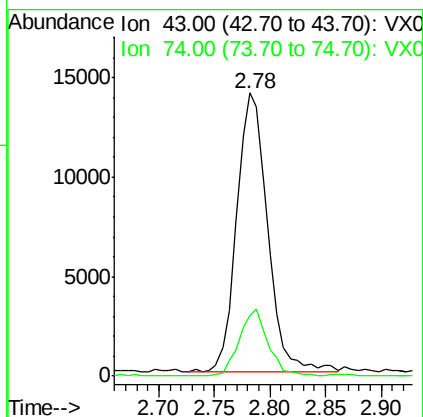
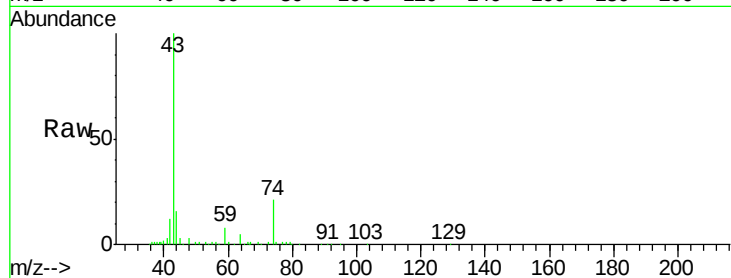




#18
Methvl Acetate
Concen: 6.47 ug/l
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX003162.D
Acq: 03 Jul 2018 21:14

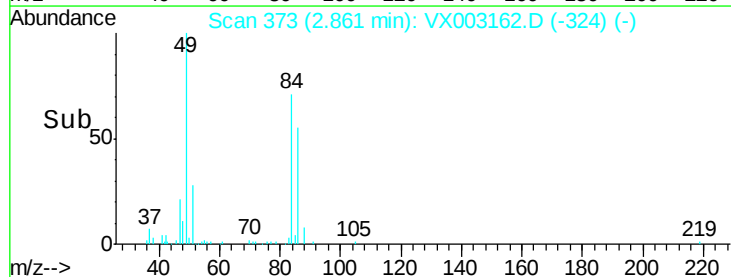
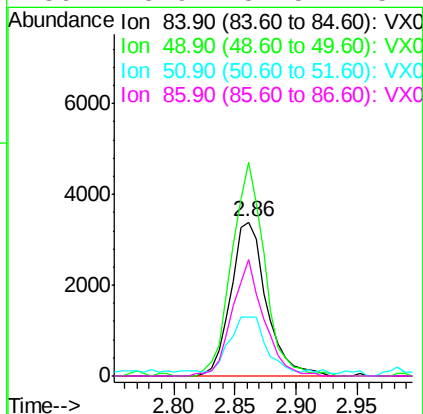
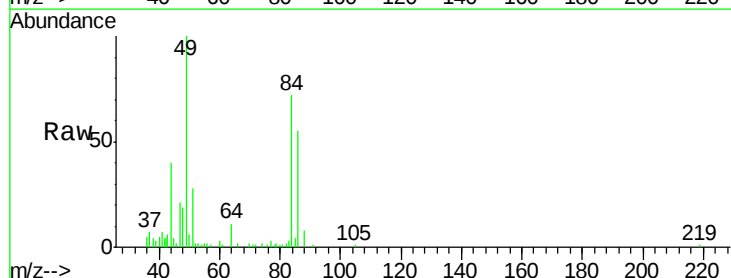
Instrument :
MSVOA_X
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I2-60-SRI3

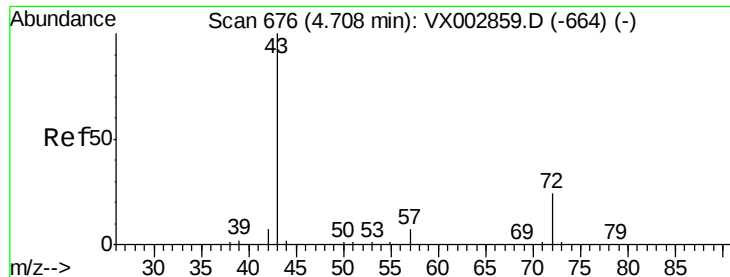
Tot Ion: 43 Resp: 27149
Ion Ratio Lower Upper
43 100
74 22.4 16.7 25.1



#20
Methylene Chloride
Concen: 2.32 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX003162.D
Acq: 03 Jul 2018 21:14

Tgt Ion: 84 Resp: 6790
Ion Ratio Lower Upper
84 100
49 138.5 107.8 161.6
51 36.9 32.8 49.2
86 75.9 52.5 78.7





#25

2-Butanone

Concen: 1.95 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX003162.D

Acq: 03 Jul 2018 21:14

Instrument :

MSVOA_X

ClientSampleId :

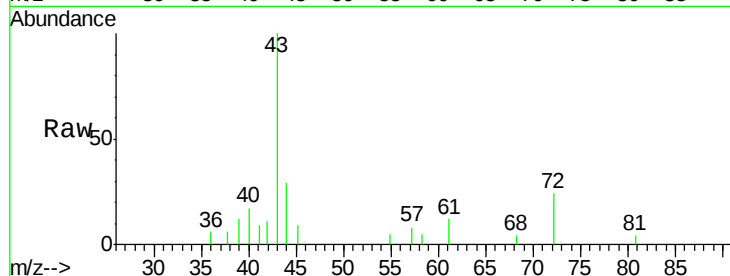
I2-60-SRI3

Tot Ion: 43 Resp: 4339

Ion Ratio Lower Upper

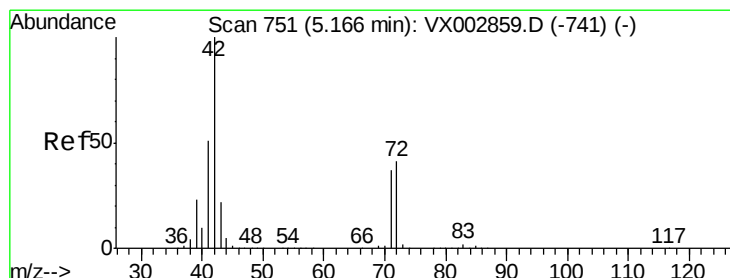
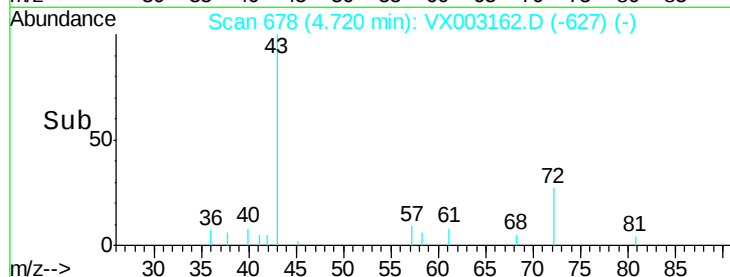
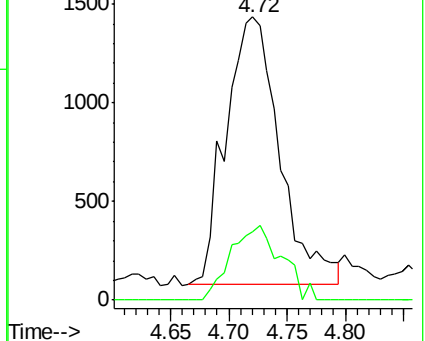
43 100

72 25.5 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: 1.13 ug/l

RT: 5.19 min Scan# 755

Delta R.T. 0.02 min

Lab File: VX003162.D

Acq: 03 Jul 2018 21:14

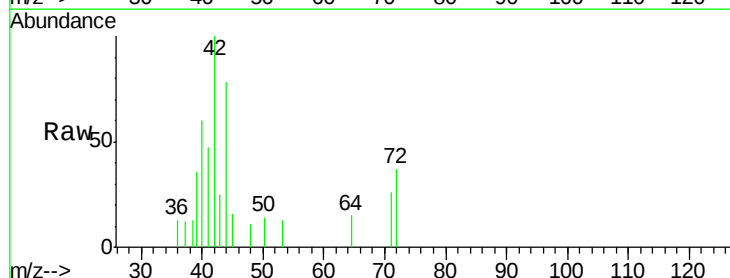
Tgt Ion: 42 Resp: 1613

Ion Ratio Lower Upper

42 100

72 0.0 32.0 48.0#

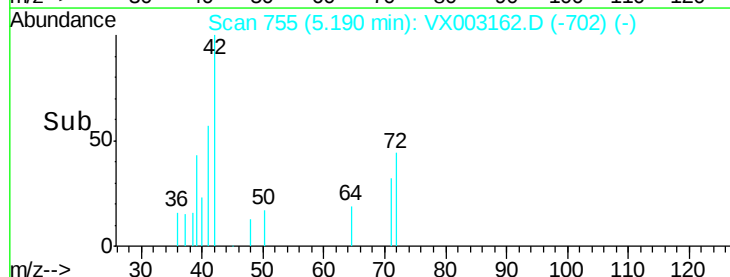
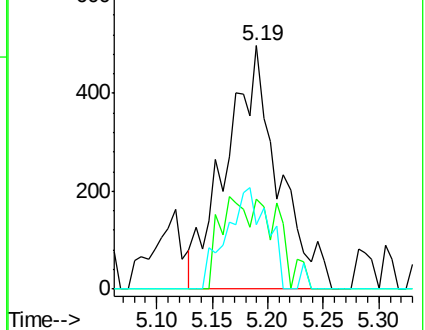
71 33.0 30.1 45.1

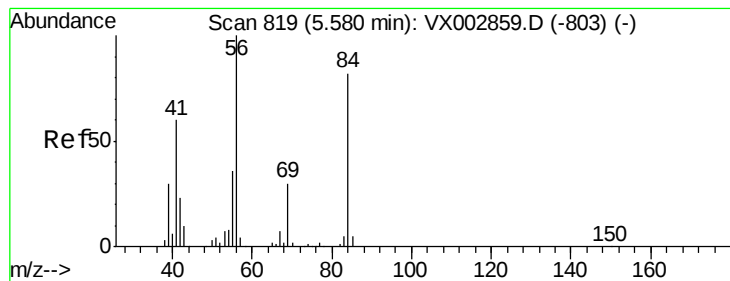


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.07 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX003162.D

Acq: 03 Jul 2018 21:14

Instrument :

MSVOA_X

ClientSampleId :

I2-60-SRI3

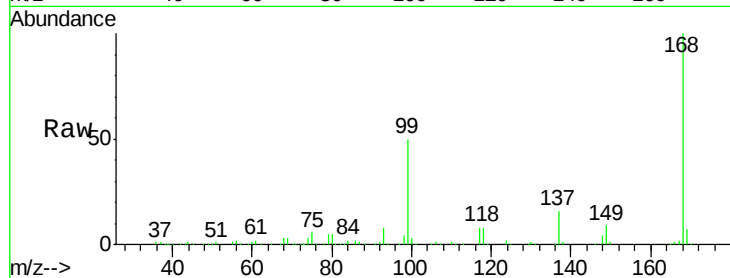
Tot Ion: 56 Resp: 4871

Ion Ratio Lower Upper

56 100

69 180.4 23.7 35.5#

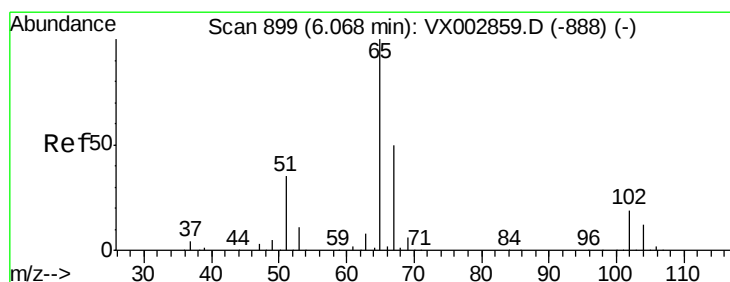
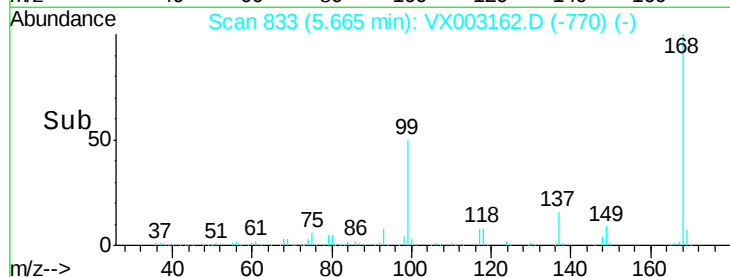
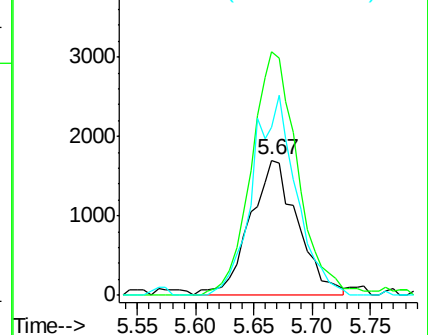
84 124.8 64.1 96.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.82 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003162.D

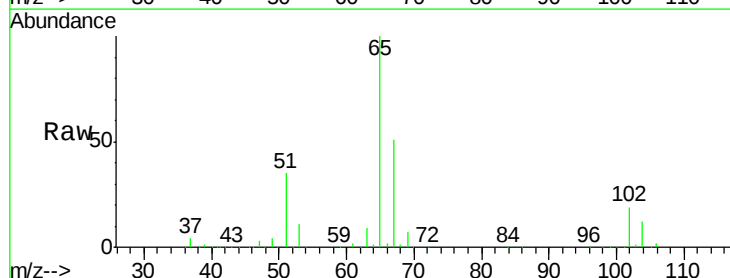
Acq: 03 Jul 2018 21:14

Tgt Ion: 65 Resp: 169675

Ion Ratio Lower Upper

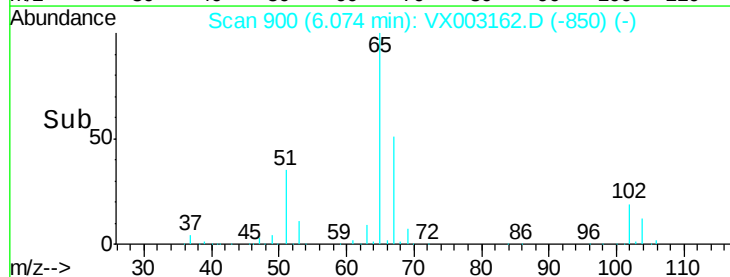
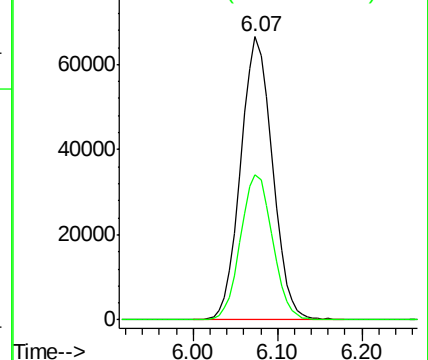
65 100

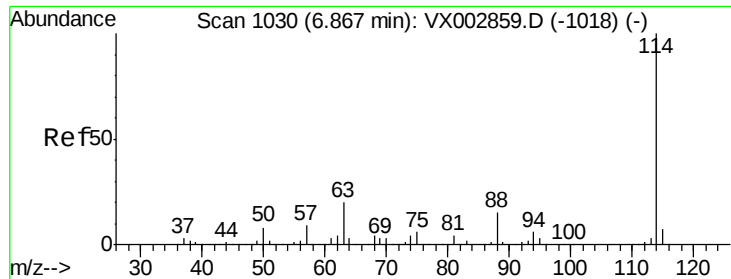
67 51.7 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

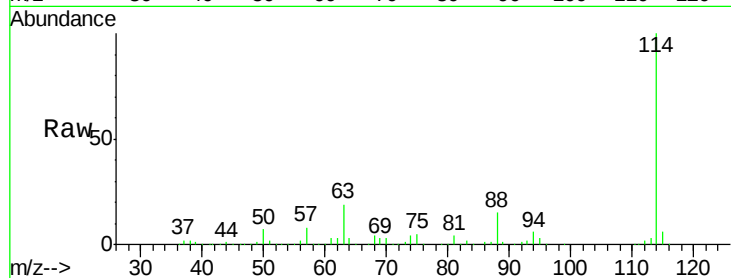




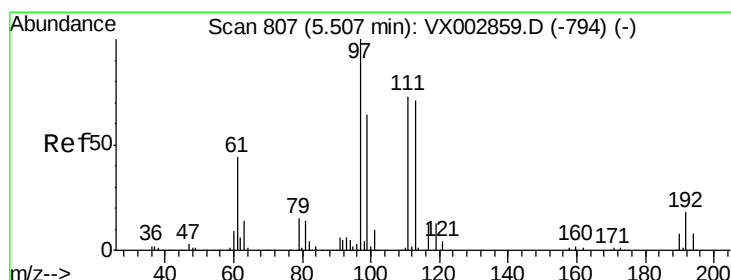
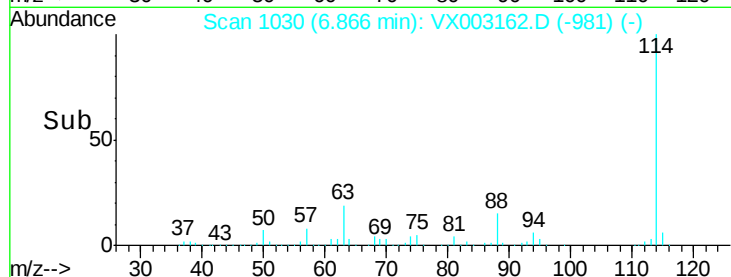
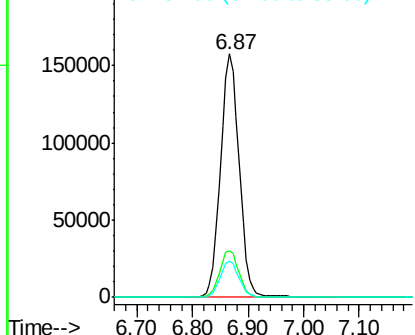
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003162.D
 Acq: 03 Jul 2018 21:14

Instrument :
 MSVOA_X
 ClientSampleId :
 I2-60-SRI3

Tot Ion:114 Resp: 368334
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 41.4
 88 15.2 0.0 30.0

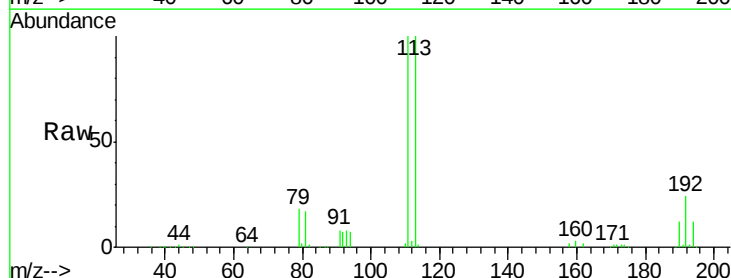


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

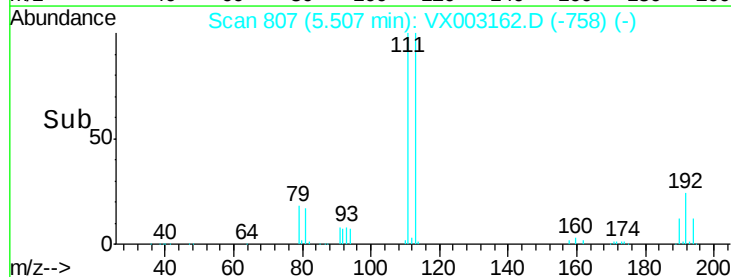
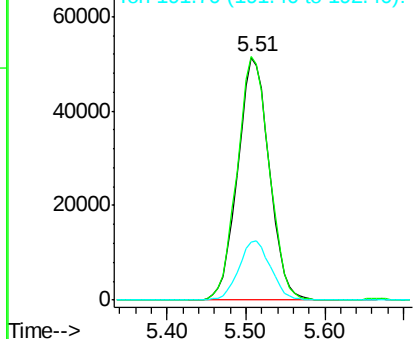


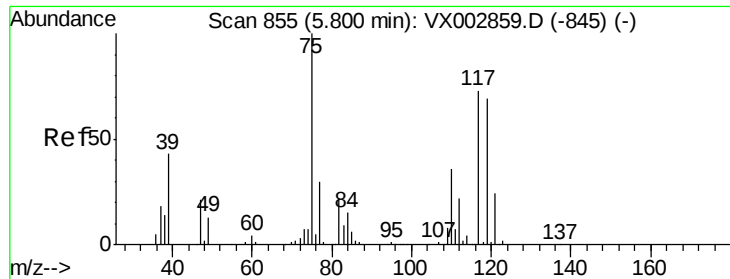
#35
 Dibromofluoromethane
 Concen: 49.05 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX003162.D
 Acq: 03 Jul 2018 21:14

Tgt Ion:113 Resp: 143062
 Ion Ratio Lower Upper
 113 100
 111 101.9 81.4 122.0
 192 24.5 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: 4.19 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003162.D

Acq: 03 Jul 2018 21:14

Instrument :

MSVOA_X

ClientSampleId :

I2-60-SRI3

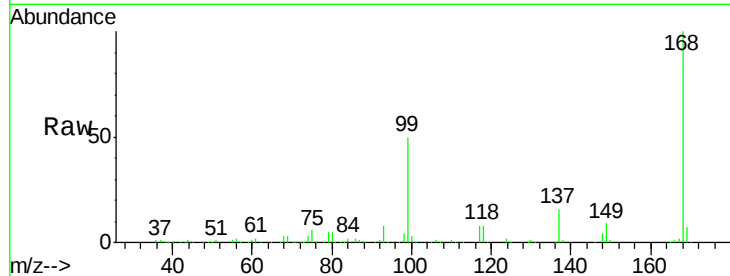
Tot Ion: 75 Resp: 16944

Ion Ratio Lower Upper

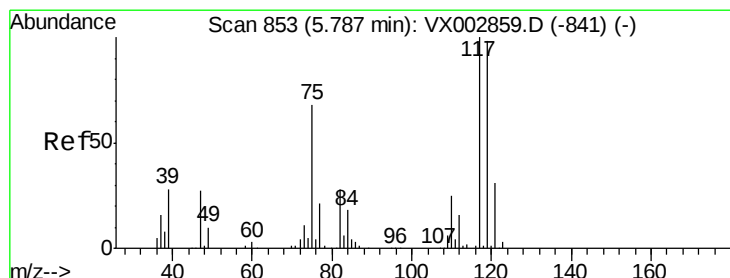
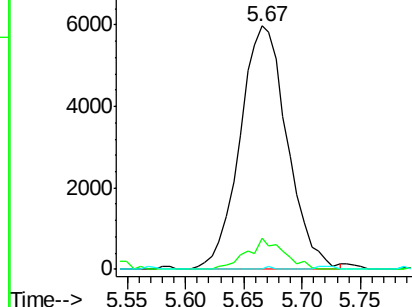
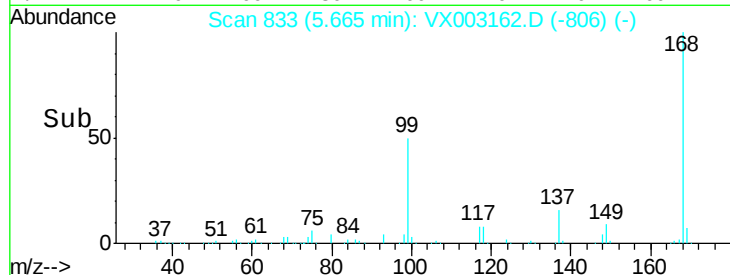
75 100

110 10.0 18.1 54.4#

77 0.2 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VX003162.D (-806) (-)



#38

Carbon Tetrachloride

Concen: 5.16 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX003162.D

Acq: 03 Jul 2018 21:14

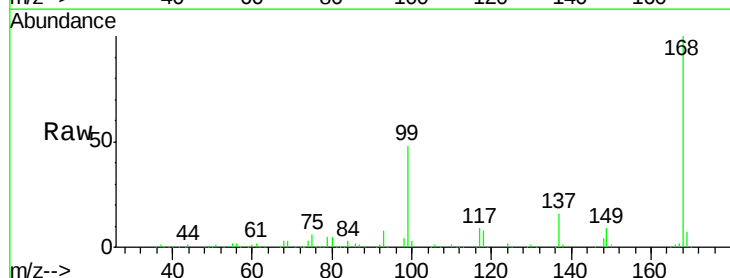
Tgt Ion: 117 Resp: 22879

Ion Ratio Lower Upper

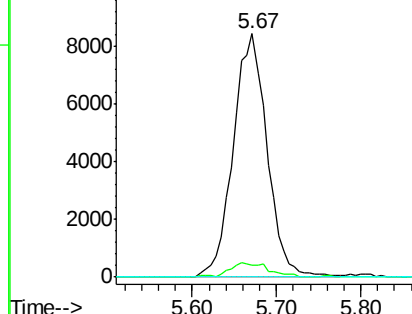
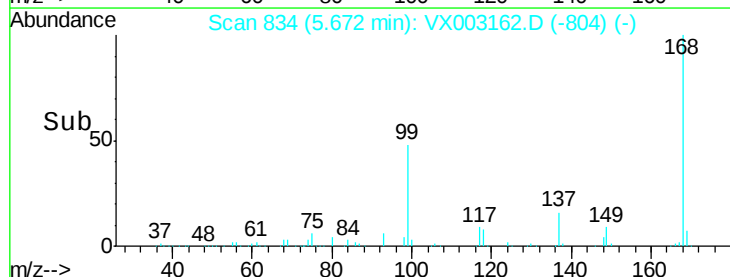
117 100

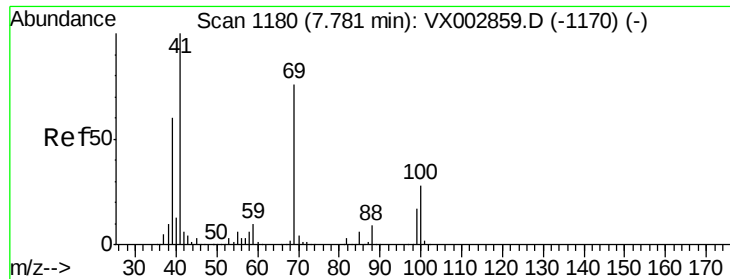
119 4.9 77.4 116.0#

121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): VX003162.D (-804) (-)

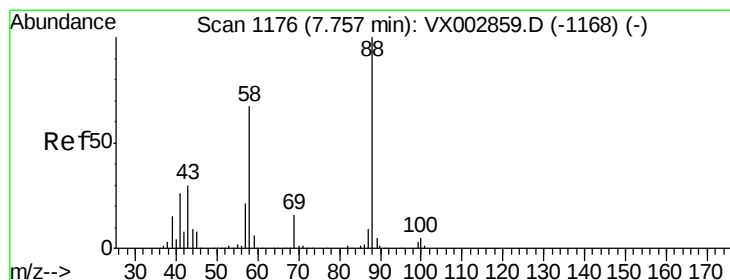
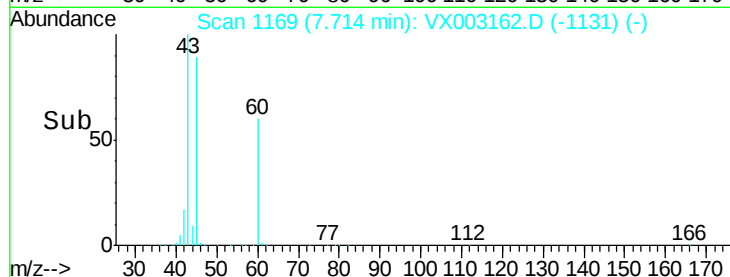
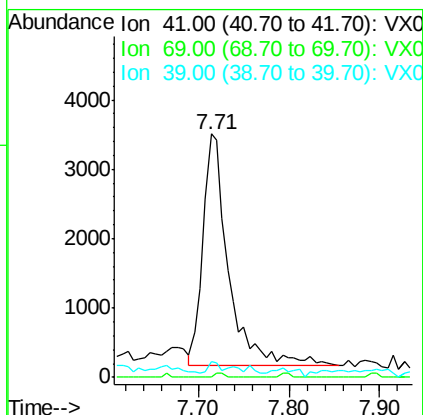
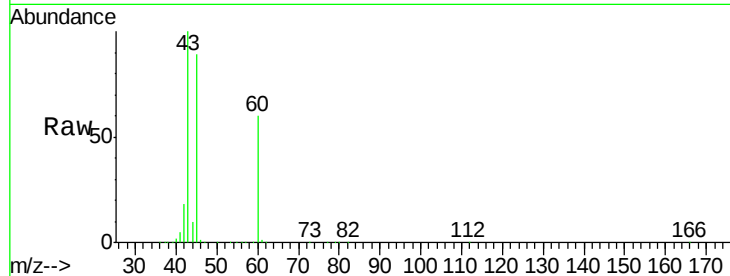




#48
Methyl methacrylate
Concen: 1.75 ug/l
RT: 7.71 min Scan# 1169
Delta R.T. -0.07 min
Lab File: VX003162.D
Acq: 03 Jul 2018 21:14

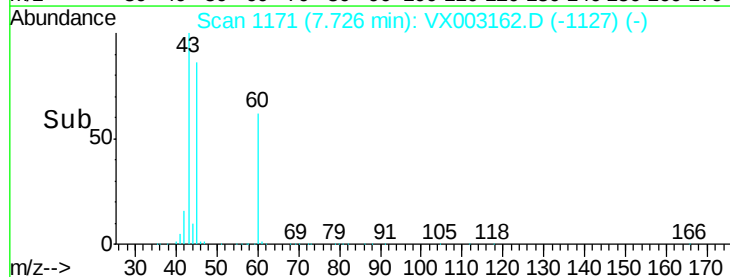
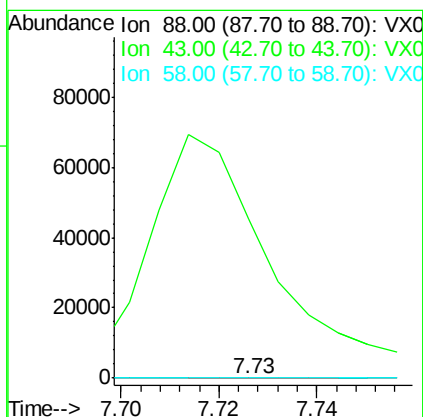
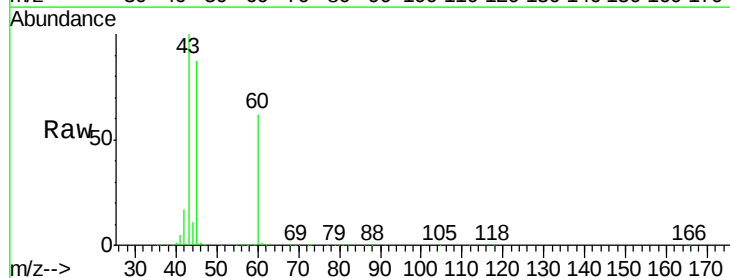
Instrument :
MSVOA_X
ClientSampleId :
I2-60-SRI3

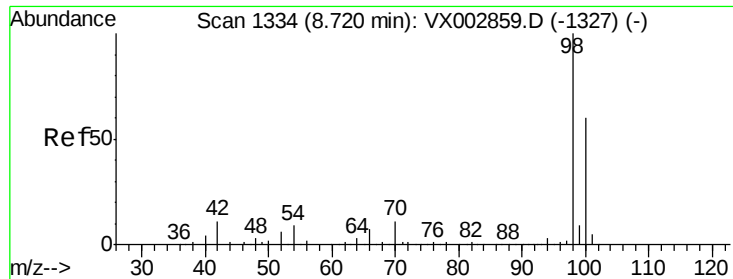
Tot Ion: 41 Resp: 6589
Ion Ratio Lower Upper
41 100
69 0.7 59.1 88.7#
39 2.3 48.9 73.3#



#49
1,4-Dioxane
Concen: 0.78 ug/l
RT: 7.73 min Scan# 1171
Delta R.T. -0.03 min
Lab File: VX003162.D
Acq: 03 Jul 2018 21:14

Tgt Ion: 88 Resp: 57
Ion Ratio Lower Upper
88 100
43 219742.1 29.8 44.6#
58 143.9 57.1 85.7#

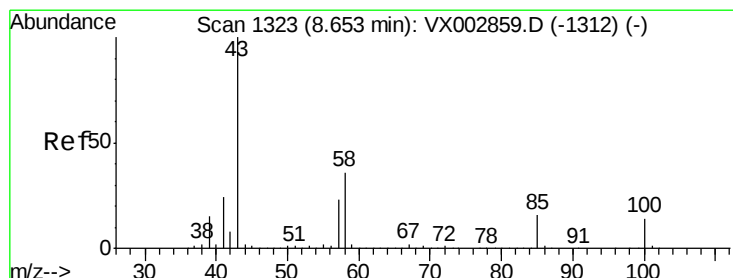
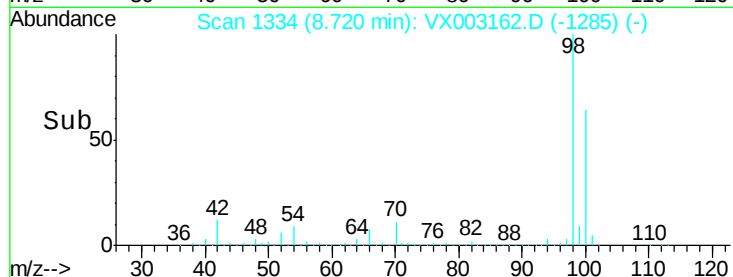
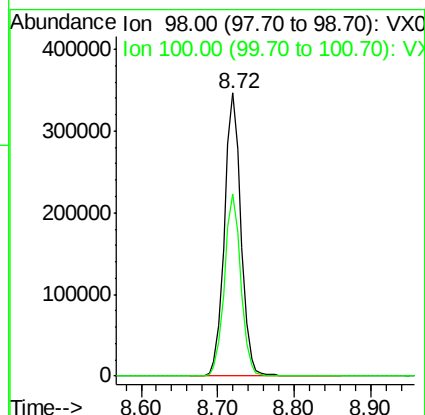
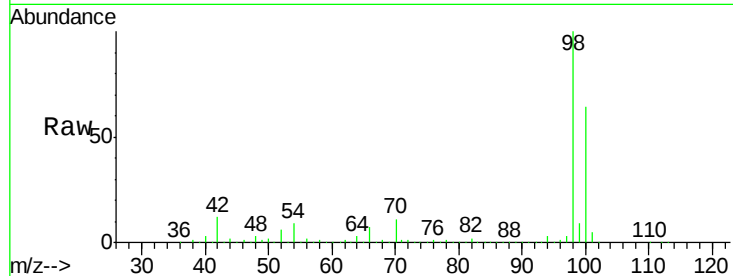




#50
Toluene-d8
Concen: 48.70 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003162.D
Acq: 03 Jul 2018 21:14

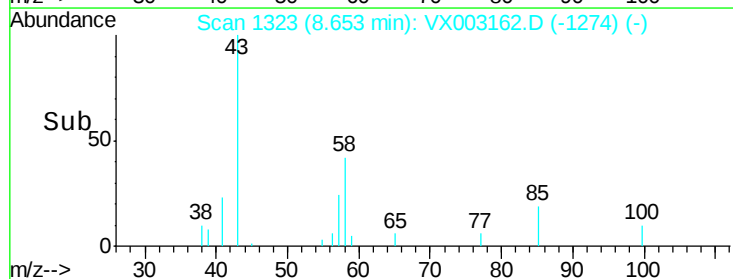
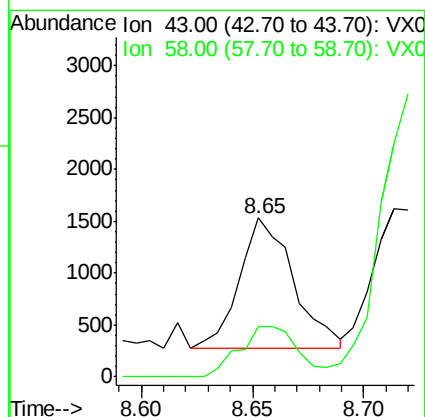
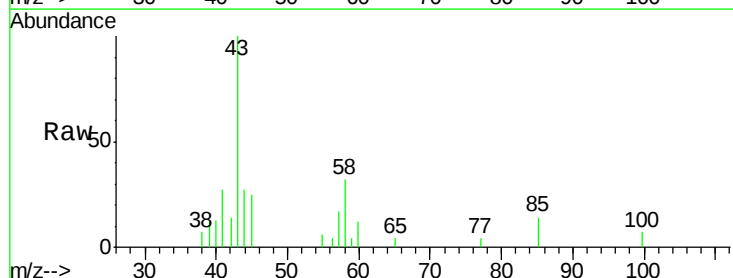
Instrument :
MSVOA_X
ClientSampleId :
I2-60-SRI3

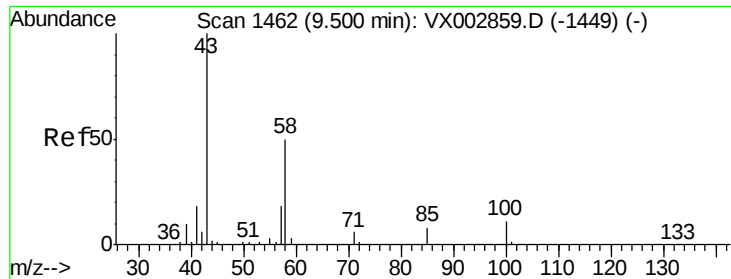
Tot Ion: 98 Resp: 518719
Ion Ratio Lower Upper
98 100
100 63.7 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.47 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. -0.00 min
Lab File: VX003162.D
Acq: 03 Jul 2018 21:14

Tgt Ion: 43 Resp: 2142
Ion Ratio Lower Upper
43 100
58 41.6 28.6 42.8

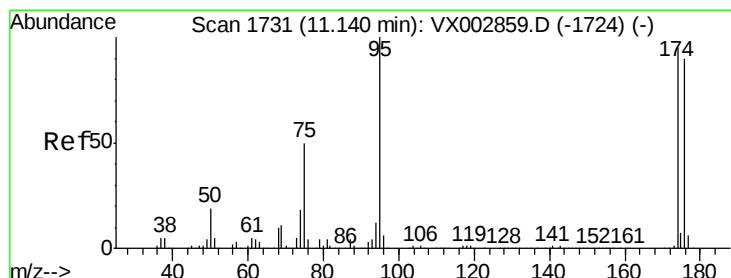
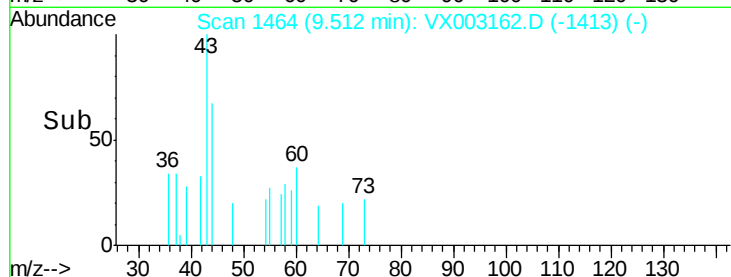
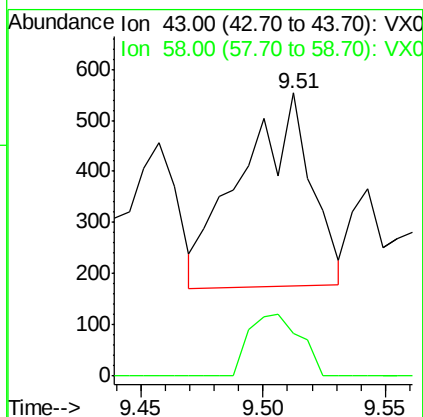
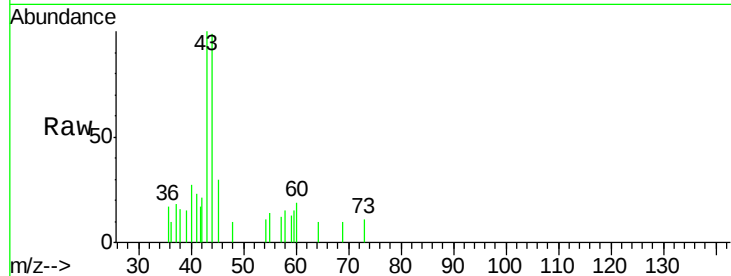




#59
2-Hexanone
Concen: 0.22 ug/l
RT: 9.51 min Scan# 1464
Delta R.T. 0.01 min
Lab File: VX003162.D
Acq: 03 Jul 2018 21:14

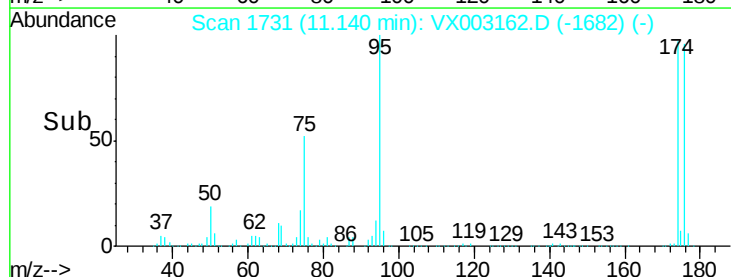
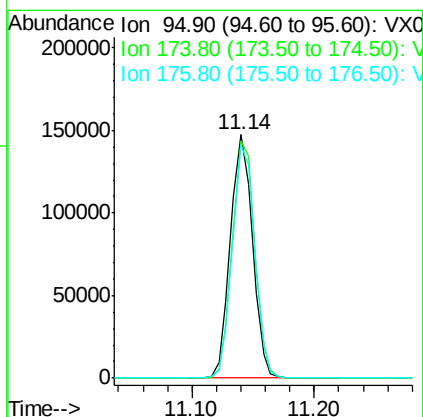
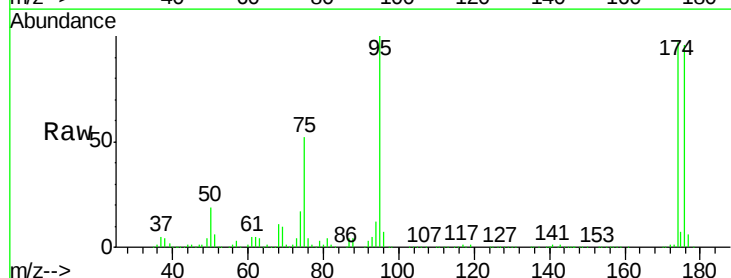
Instrument :
MSVOA_X
ClientSampleId :
I2-60-SRI3

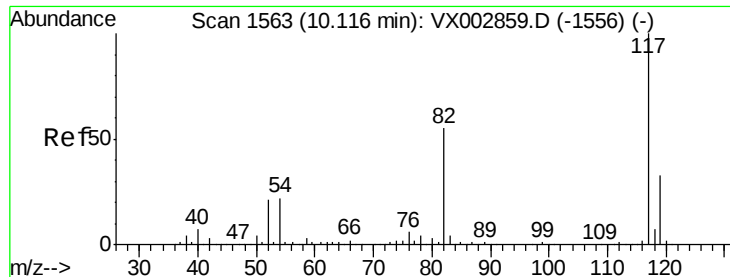
Tot Ion: 43 Resp: 748
Ion Ratio Lower Upper
43 100
58 23.5 24.6 73.6#



#62
4-Bromofluorobenzene
Concen: 44.74 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003162.D
Acq: 03 Jul 2018 21:14

Tgt Ion: 95 Resp: 183792
Ion Ratio Lower Upper
95 100
174 99.4 0.0 187.4
176 96.5 0.0 181.0

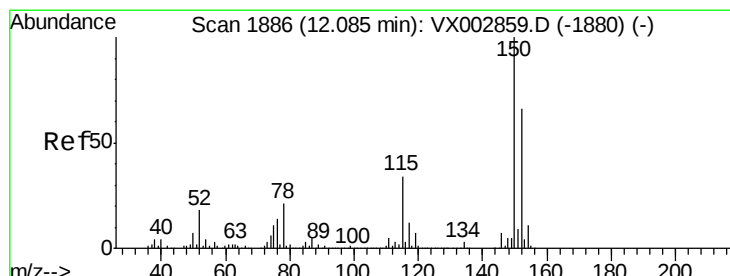
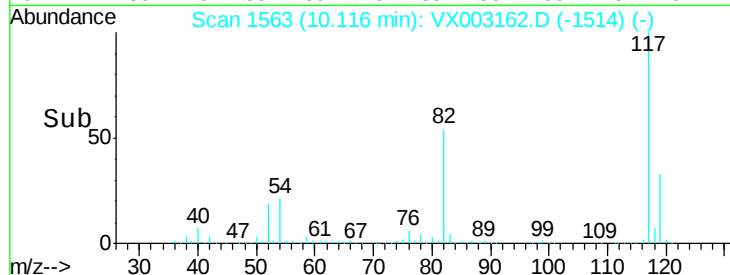
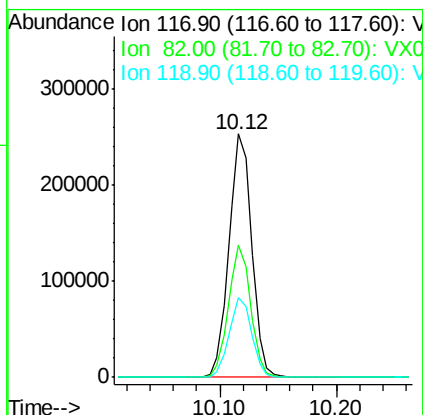
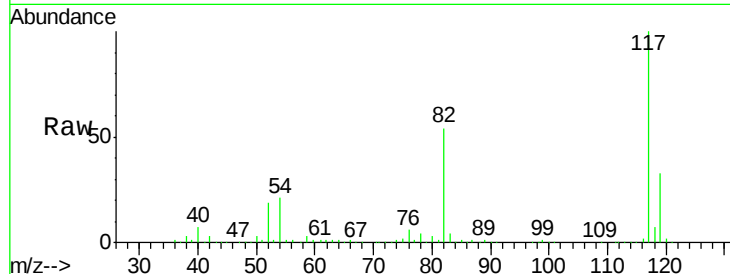




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003162.D
Acq: 03 Jul 2018 21:14

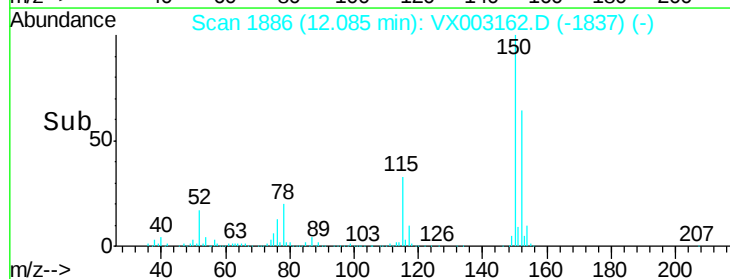
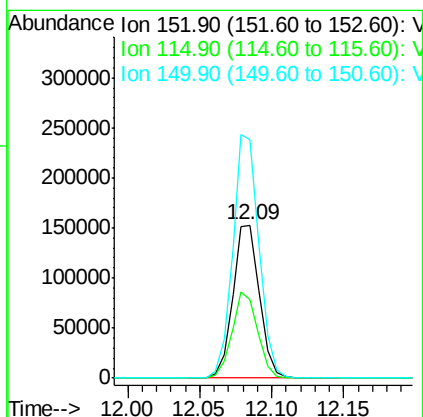
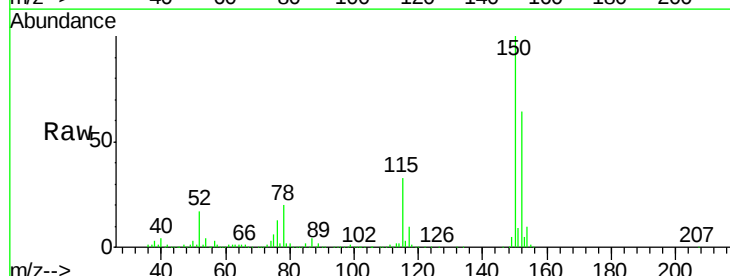
Instrument :
MSVOA_X
ClientSampleId :
12-60-SRI3

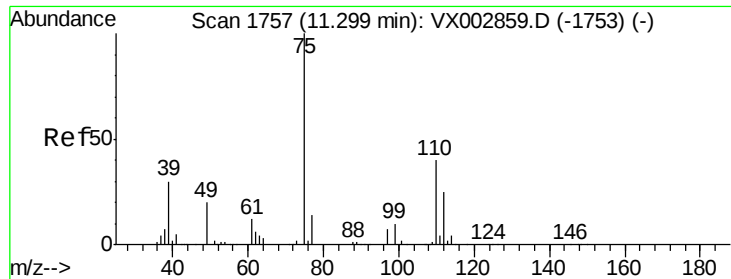
Tot Ion:117 Resp: 345250
Ion Ratio Lower Upper
117 100
82 54.3 45.0 67.4
119 32.7 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX003162.D
Acq: 03 Jul 2018 21:14

Tgt Ion:152 Resp: 197205
Ion Ratio Lower Upper
152 100
115 54.2 40.1 120.2
150 157.1 0.0 347.2

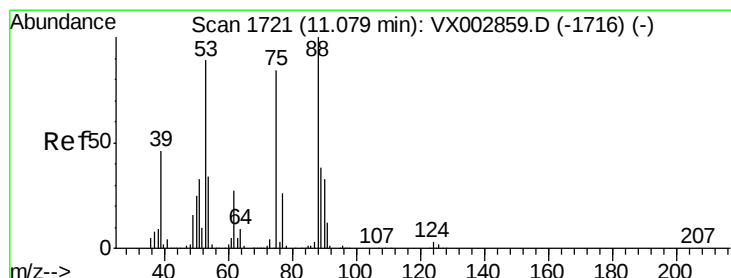
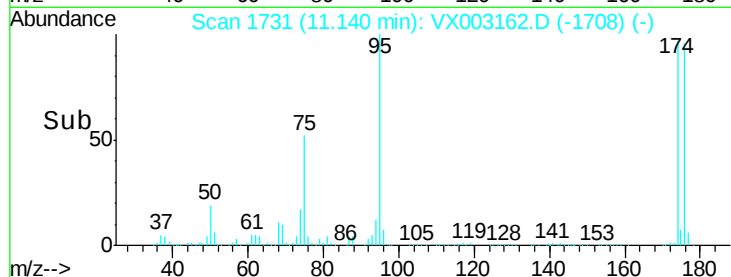
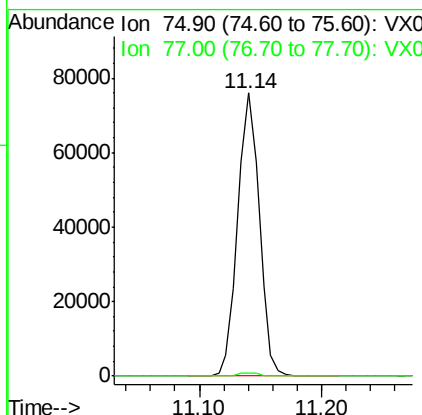
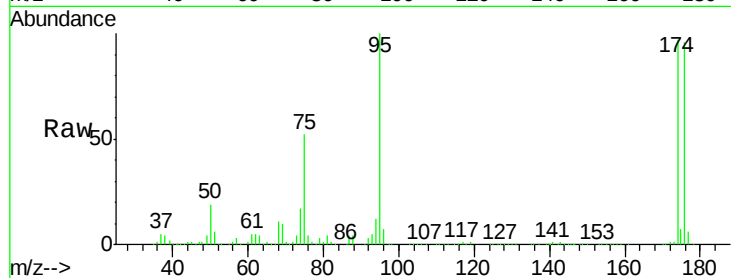




#76
 1,2,3-Trichloropropane
 Concen: 26.03 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003162.D
 Acq: 03 Jul 2018 21:14

Instrument :
 MSVOA_X
 ClientSampled :
 I2-60-SRI3

Tot Ion: 75 Resp: 92983
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.81 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003162.D
 Acq: 03 Jul 2018 21:14

Tgt Ion: 75 Resp: 92983
 Ion Ratio Lower Upper
 75 100
 53 0.2 86.8 130.2#
 89 0.0 38.2 57.2#

