

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081318\
 Data File : VX003996.D
 Acq On : 13 Aug 2018 13:29
 Operator : JC/MD
 Sample : J4439-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 IDW-SO3-SRI3

Quant Time: Aug 14 03:06:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080618W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 13 01:34:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	289758	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	473311	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	435220	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	230438	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	213857	55.68	ug/l	0.00
Spiked Amount			Recovery	=	111.36%	
35) Dibromofluoromethane	5.51	113	177087	49.39	ug/l	0.00
Spiked Amount			Recovery	=	98.78%	
50) Toluene-d8	8.72	98	676758	48.53	ug/l	0.00
Spiked Amount			Recovery	=	97.06%	
62) 4-Bromofluorobenzene	11.14	95	228199	50.58	ug/l	0.00
Spiked Amount			Recovery	=	101.16%	

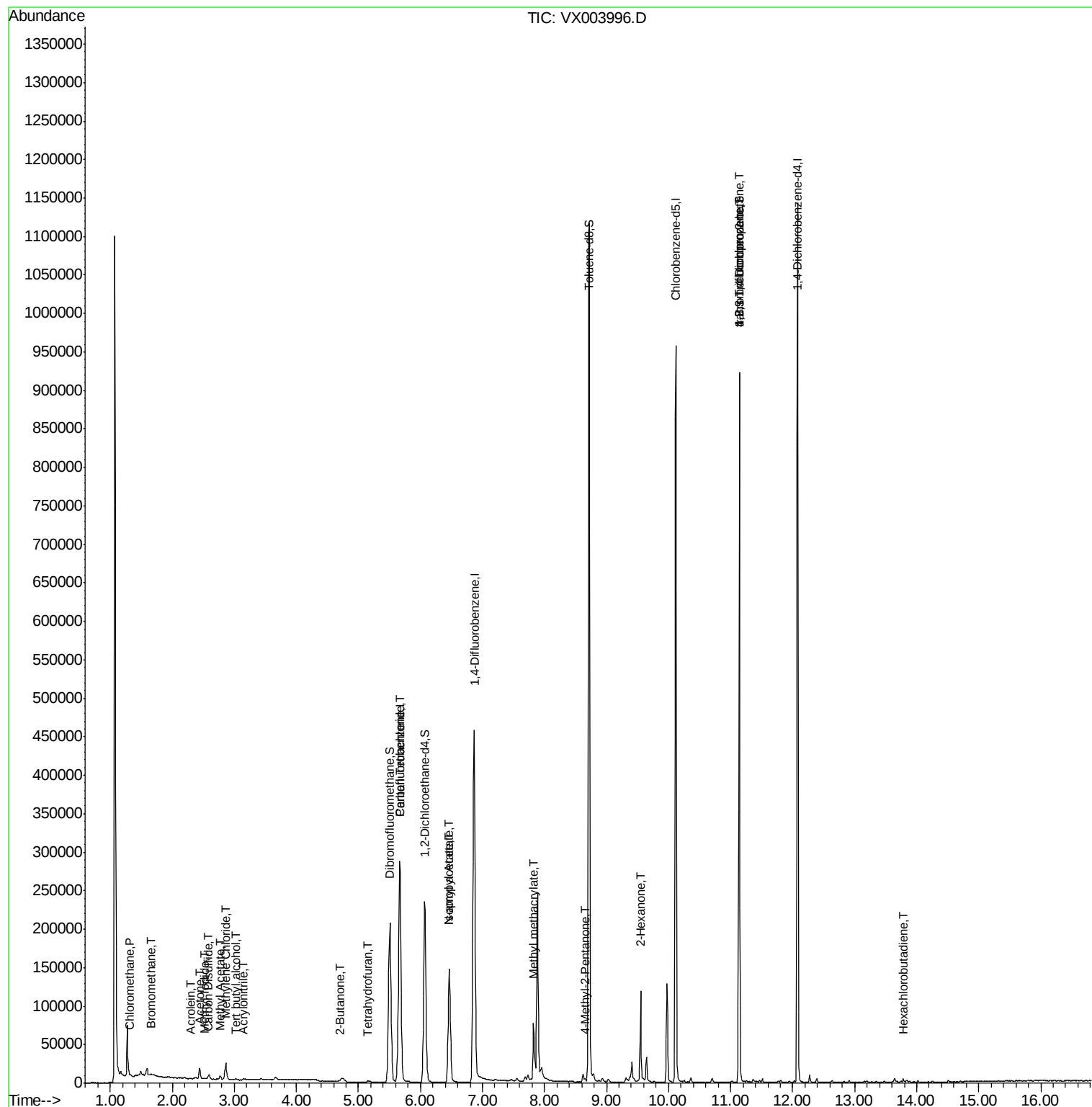
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	850	0.21	ug/l	93
5) Bromomethane	1.65	94	1441	0.57	ug/l	99
10) Methyl Iodide	2.52	142	1547	0.38	ug/l	96
11) Tert butyl alcohol	3.03	59	1207	1.31	ug/l #	86
13) Acrolein	2.29	56	225	0.44	ug/l #	1
15) Acrylonitrile	3.14	53	852	0.39	ug/l #	81
16) Acetone	2.43	43	15459	6.77	ug/l	99
17) Carbon Disulfide	2.57	76	2608	0.27	ug/l #	59
18) Methyl Acetate	2.77	43	5971	1.20	ug/l	92
20) Methylene Chloride	2.86	84	10643	1.92	ug/l	96
25) 2-Butanone	4.70	43	3732	1.09	ug/l	91
29) Tetrahydrofuran	5.16	42	1956	1.11	ug/l	89
38) Carbon Tetrachloride	5.67	117	26100	5.17	ug/l #	16
43) Isopropyl Acetate	6.46	43	192538	21.94	ug/l	99
48) Methyl methacrylate	7.82	41	1709	0.38	ug/l #	14
51) 4-Methyl-2-Pentanone	8.65	43	1631	0.22	ug/l #	48
59) 2-Hexanone	9.55	43	12868	2.37	ug/l #	57
74) N-amyl acetate	6.46	43	192538	21.72	ug/l #	99
76) 1,2,3-Trichloropropane	11.14	75	111627	21.93	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	111627	66.84	ug/l #	9
94) Hexachlorobutadiene	13.78	225	597	0.21	ug/l	76

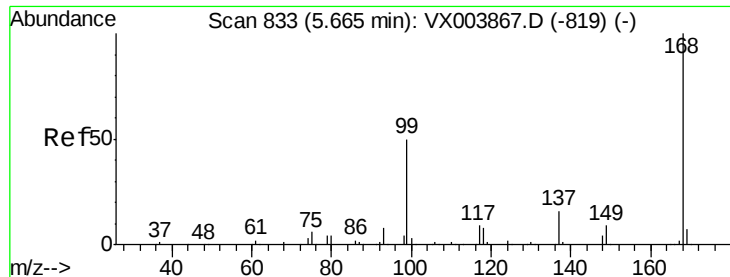
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Aug 13 01:34:27 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003996.D

Acq: 13 Aug 2018 13:29

Instrument :

MSVOA_X

ClientSampleId :

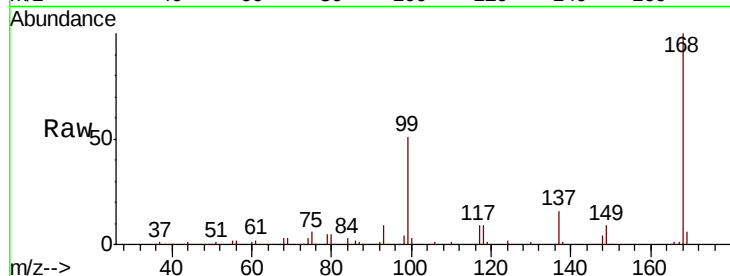
IDW-SO3-SRI3

Tot Ion:168 Resp: 289758

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

5.67

120000

100000

80000

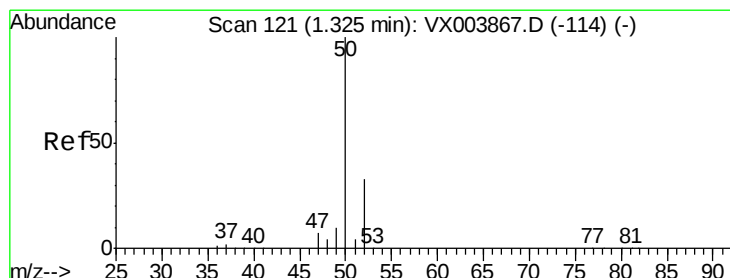
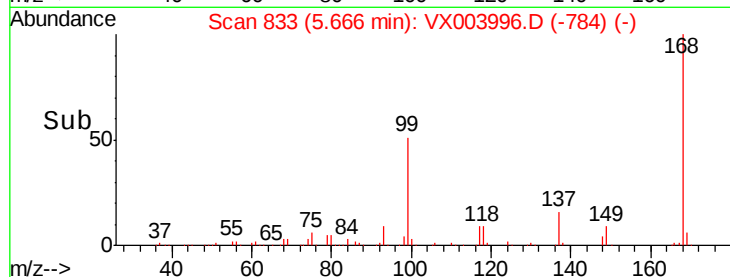
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.21 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003996.D

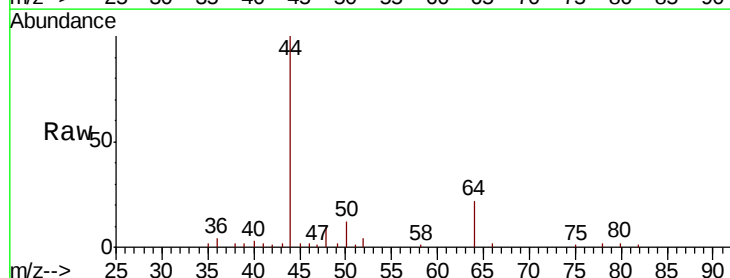
Acq: 13 Aug 2018 13:29

Tgt Ion: 50 Resp: 850

Ion Ratio Lower Upper

50 100

52 37.1 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

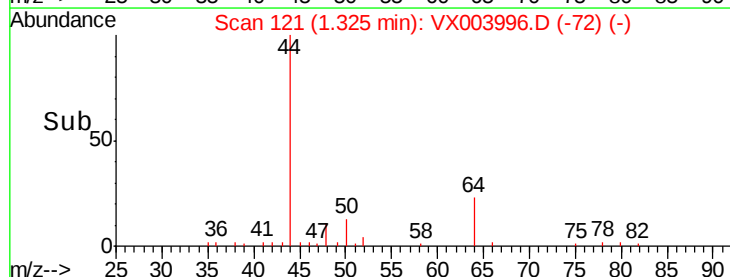
600

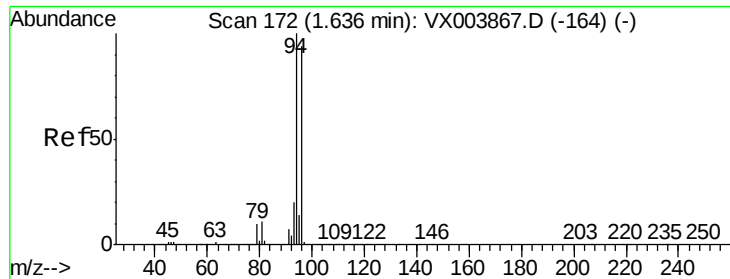
400

200

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.57 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003996.D

Acq: 13 Aug 2018 13:29

Instrument :

MSVOA_X

ClientSampleId :

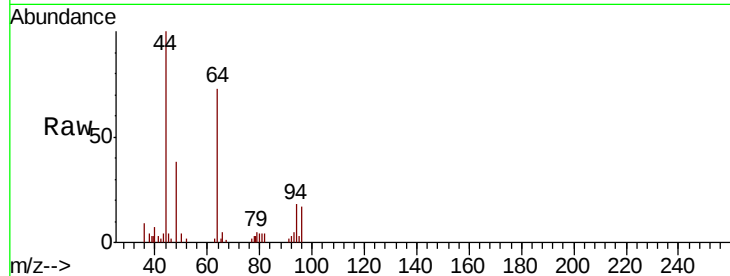
IDW-SO3-SRI3

Tot Ion: 94 Resp: 1441

Ion Ratio Lower Upper

94 100

96 95.3 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

600

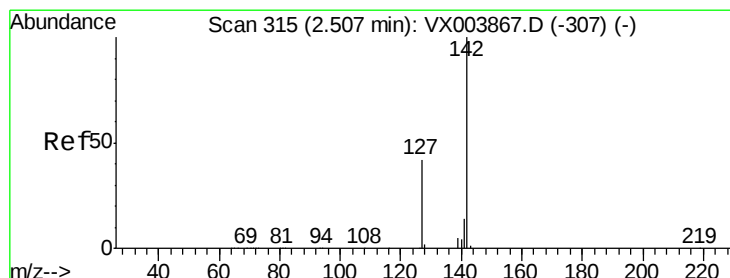
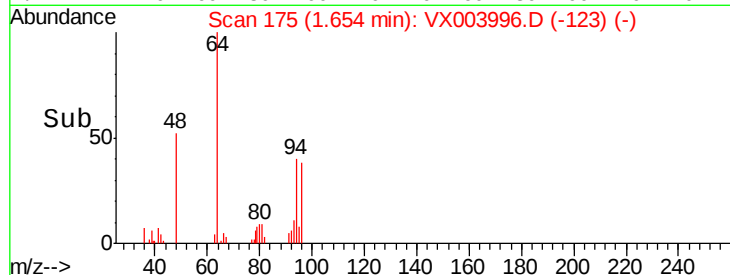
400

200

0

1.60 1.65 1.70 1.75

Time-->



#10

Methyl Iodide

Concen: 0.38 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003996.D

Acq: 13 Aug 2018 13:29

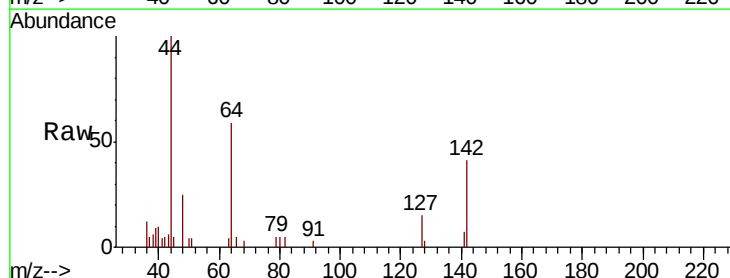
Tgt Ion: 142 Resp: 1547

Ion Ratio Lower Upper

142 100

127 43.4 33.1 49.7

141 11.9 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

1000

800

600

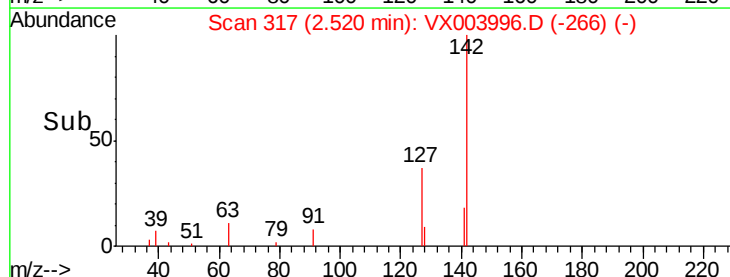
400

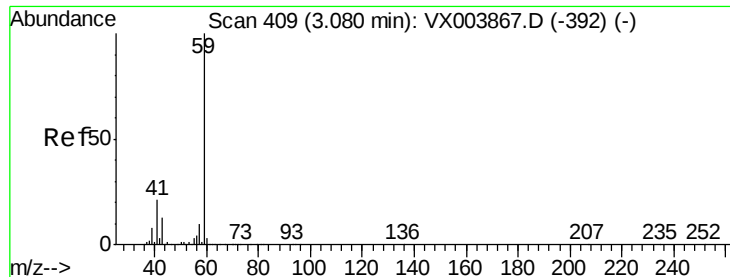
200

0

2.45 2.50 2.55

Time-->

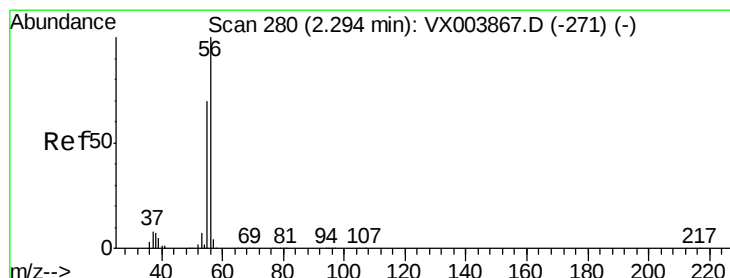
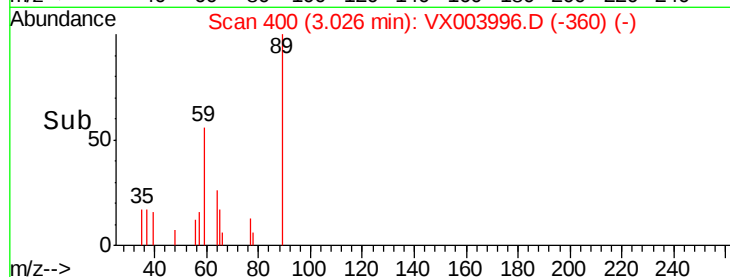
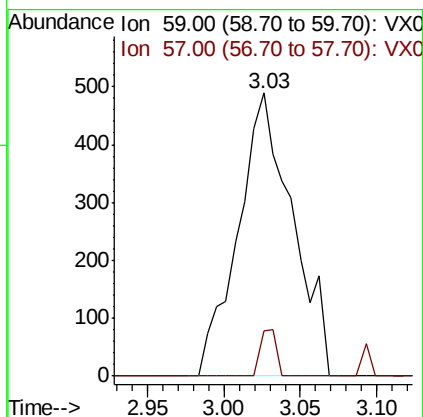
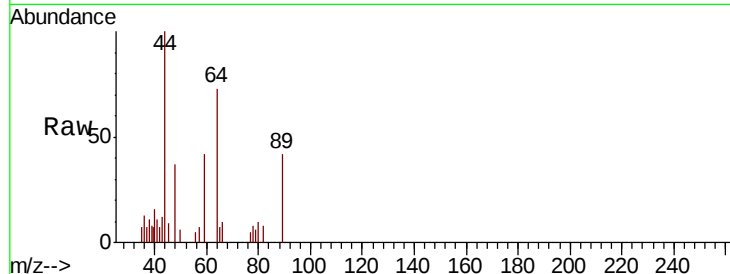




#11
Tert butyl alcohol
Concen: 1.31 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.05 min
Lab File: VX003996.D
Acq: 13 Aug 2018 13:29

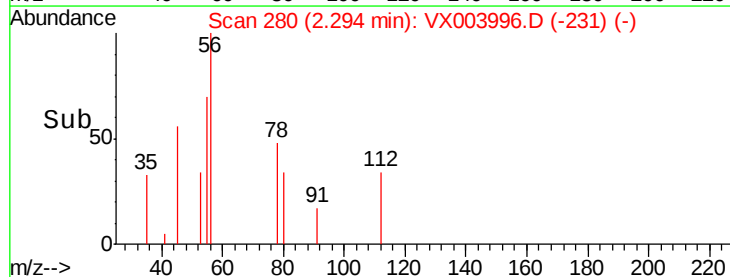
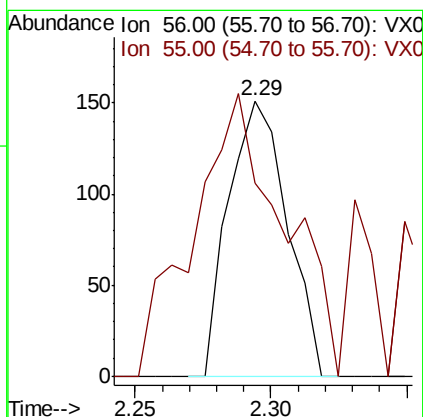
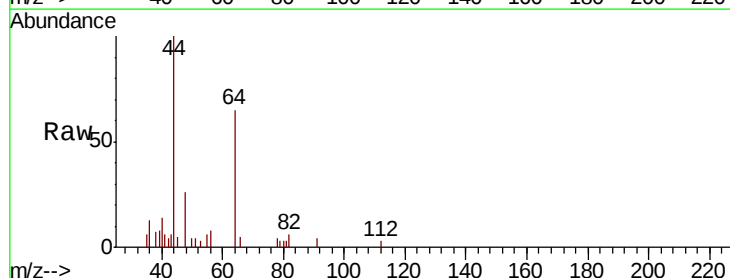
Instrument :
MSVOA_X
ClientSampled :
IDW-SO3-SRI3

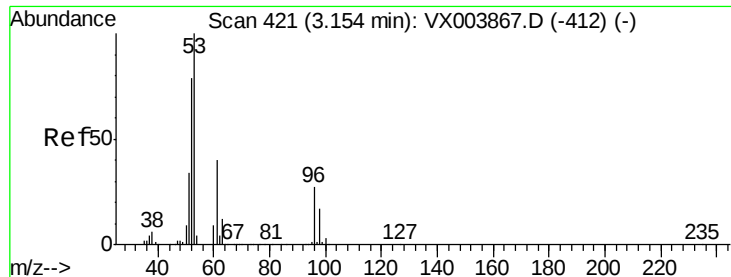
Tot Ion: 59 Resp: 1207
Ion Ratio Lower Upper
59 100
57 4.8 8.1 12.1#



#13
Acrolein
Concen: 0.44 ug/l
RT: 2.29 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX003996.D
Acq: 13 Aug 2018 13:29

Tgt Ion: 56 Resp: 225
Ion Ratio Lower Upper
56 100
55 158.7 56.1 84.1#





#15

Acrylonitrile

Concen: 0.39 ug/l

RT: 3.14 min Scan# 418

Delta R.T. -0.02 min

Lab File: VX003996.D

Acq: 13 Aug 2018 13:29

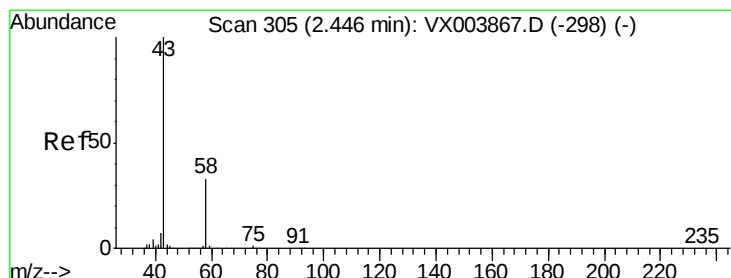
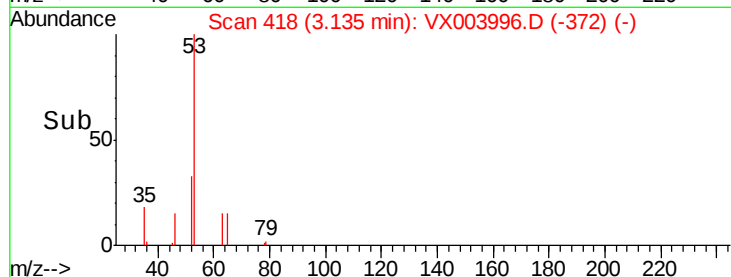
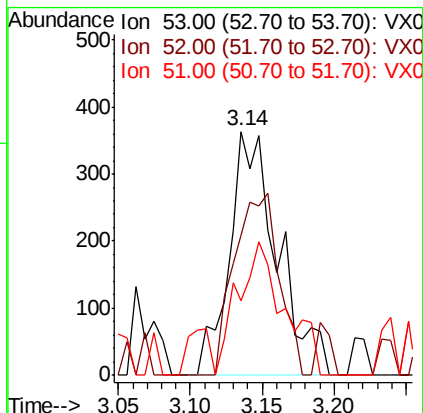
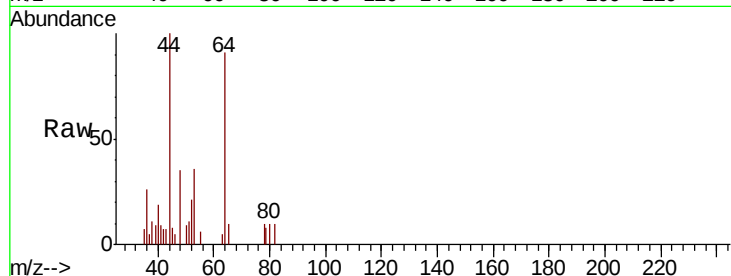
Instrument :

MSVOA_X

ClientSampleId :

IDW-SO3-SRI3

Tot Ion:	53	Resp:	852
Ion	Ratio	Lower	Upper
53	100		
52	68.7	65.3	97.9
51	52.7	27.9	41.9#



#16

Acetone

Concen: 6.77 ug/l

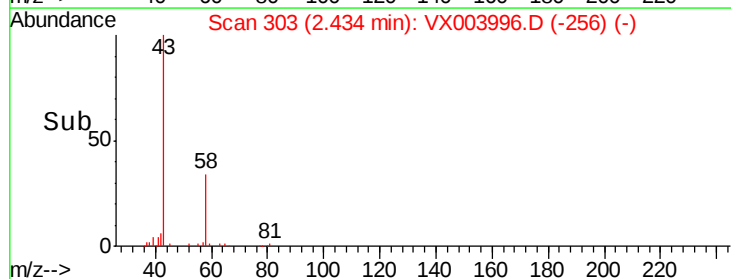
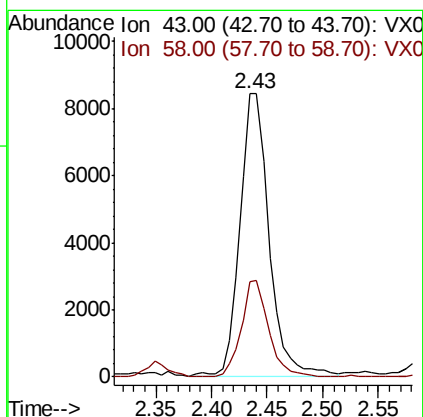
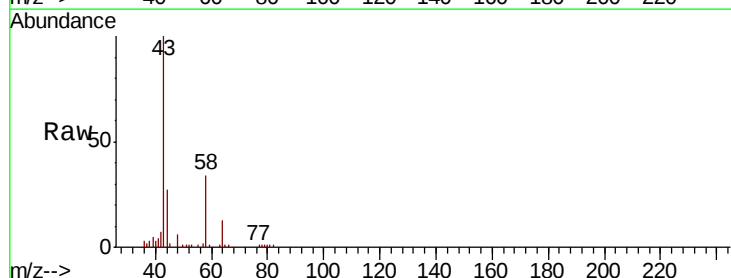
RT: 2.43 min Scan# 303

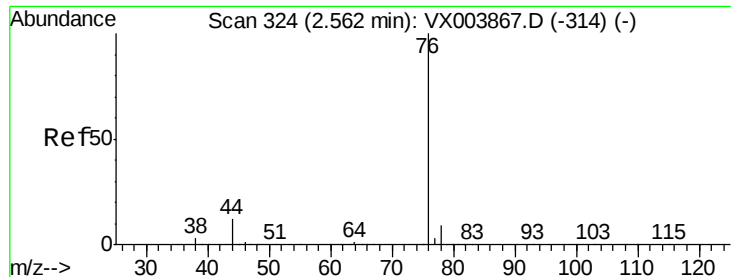
Delta R.T. -0.01 min

Lab File: VX003996.D

Acq: 13 Aug 2018 13:29

Tgt Ion:	43	Resp:	15459
Ion	Ratio	Lower	Upper
43	100		
58	33.8	26.4	39.6





#17

Carbon Disulfide

Concen: 0.27 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX003996.D

Acq: 13 Aug 2018 13:29

Instrument :

MSVOA_X

ClientSampleId :

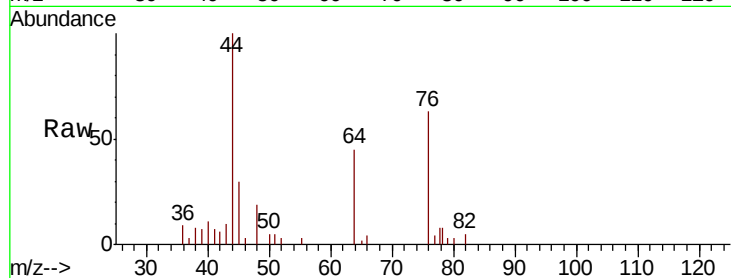
IDW-SO3-SRI3

Tot Ion: 76 Resp: 2608

Ion Ratio Lower Upper

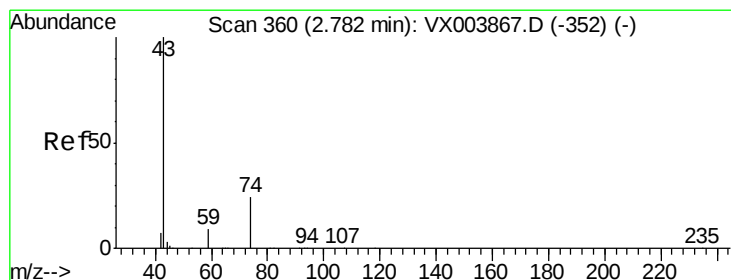
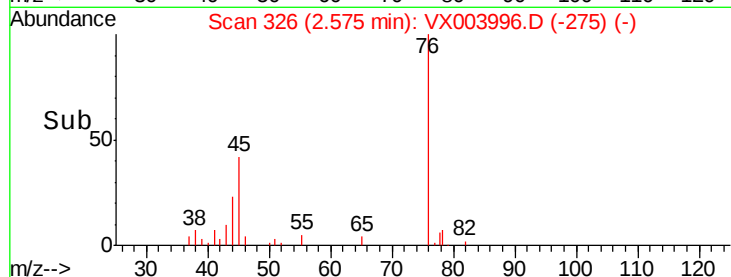
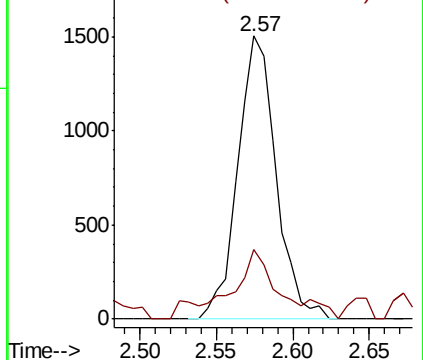
76 100

78 24.5 7.5 11.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 1.20 ug/l

RT: 2.77 min Scan# 358

Delta R.T. -0.01 min

Lab File: VX003996.D

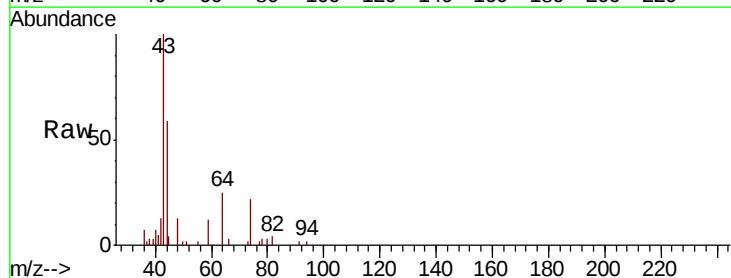
Acq: 13 Aug 2018 13:29

Tgt Ion: 43 Resp: 5971

Ion Ratio Lower Upper

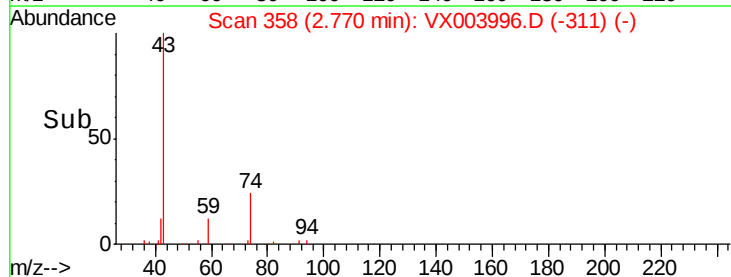
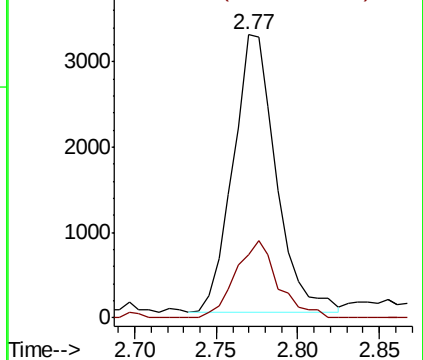
43 100

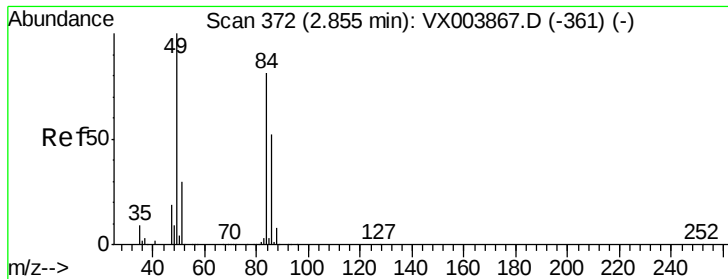
74 27.5 18.9 28.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

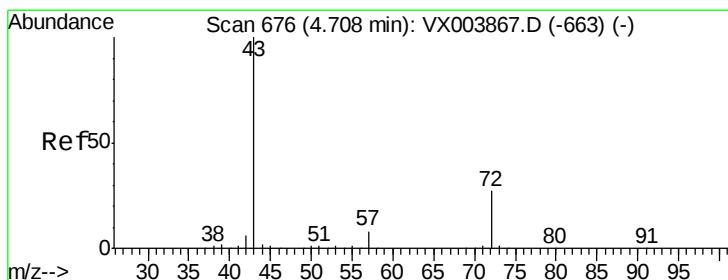
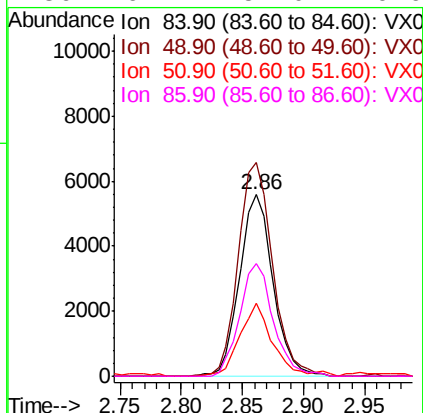
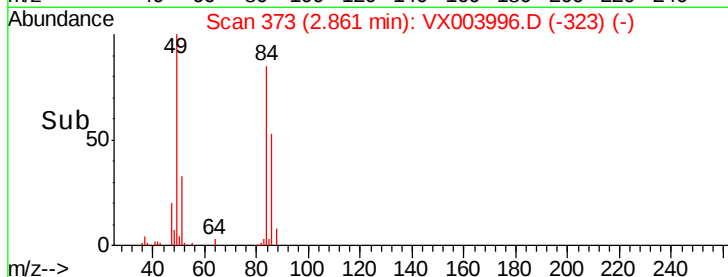
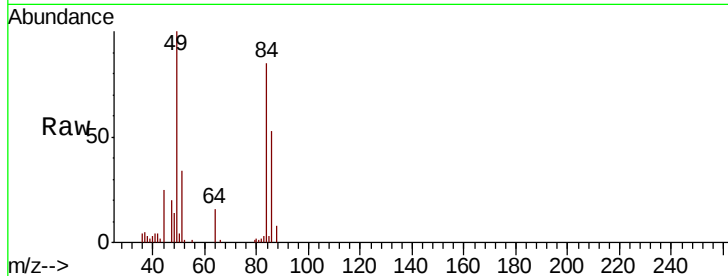




#20
Methvlene Chloride
Concen: 1.92 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003996.D
Acq: 13 Aug 2018 13:29

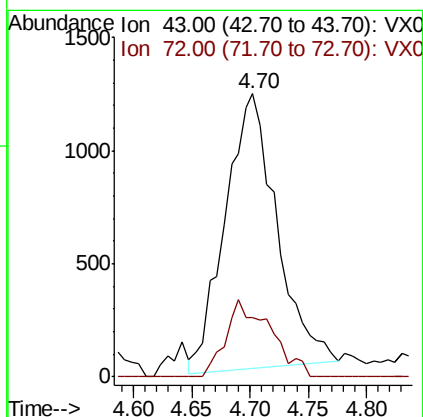
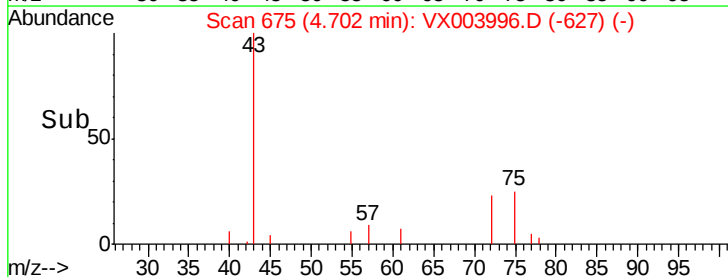
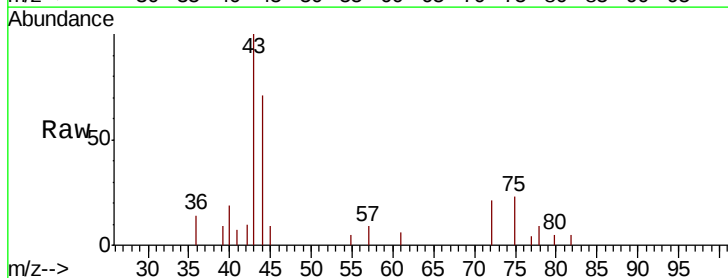
Instrument :
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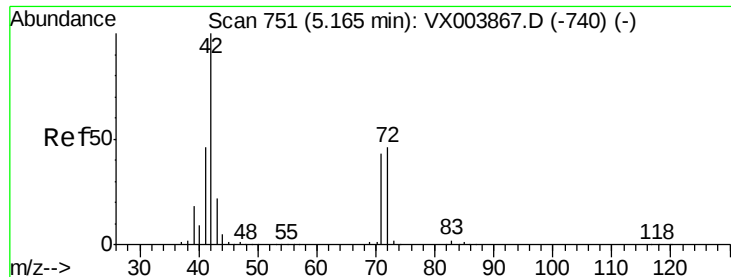
Tot Ion: 84 Resp: 10643
Ion Ratio Lower Upper
84 100
49 117.8 98.9 148.3
51 40.1 29.9 44.9
86 62.4 51.0 76.6



#25
2-Butanone
Concen: 1.09 ug/l
RT: 4.70 min Scan# 675
Delta R.T. -0.01 min
Lab File: VX003996.D
Acq: 13 Aug 2018 13:29

Tgt Ion: 43 Resp: 3732
Ion Ratio Lower Upper
43 100
72 22.2 21.4 32.0





#29

Tetrahydrofuran

Concen: 1.11 ug/l

RT: 5.16 min Scan# 750

Delta R.T. -0.01 min

Lab File: VX003996.D

Acq: 13 Aug 2018 13:29

Instrument :

MSVOA_X

ClientSampleId :

IDW-SO3-SRI3

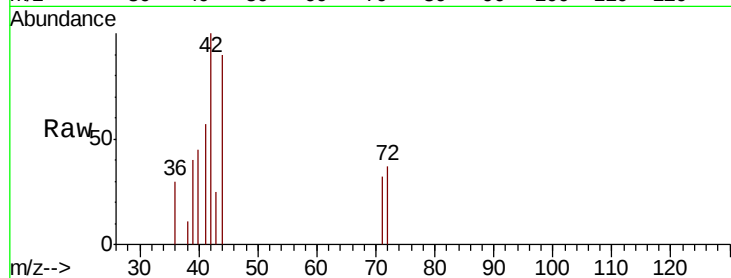
Tot Ion: 42 Resp: 1956

Ion Ratio Lower Upper

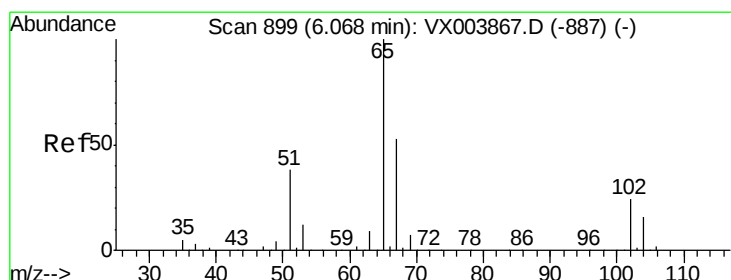
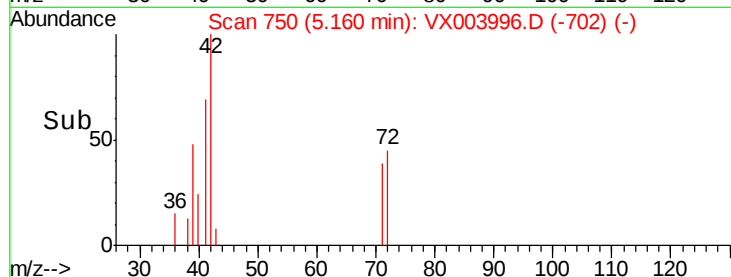
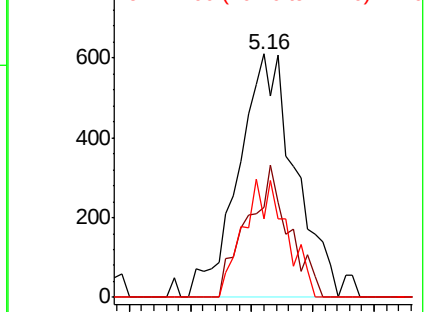
42 100

72 39.9 37.7 56.5

71 36.9 35.0 52.6



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



#33

1,2-Dichloroethane-d4

Concen: 55.68 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX003996.D

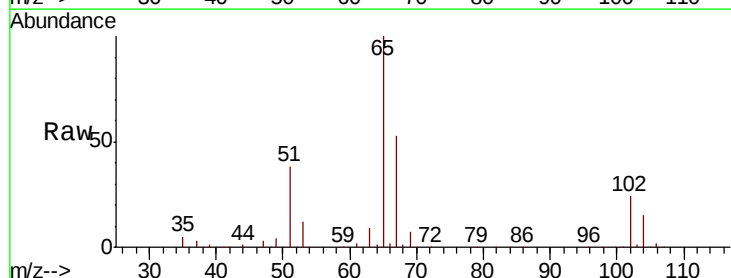
Acq: 13 Aug 2018 13:29

Tgt Ion: 65 Resp: 213857

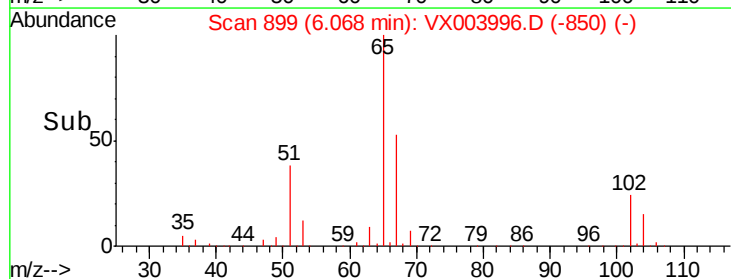
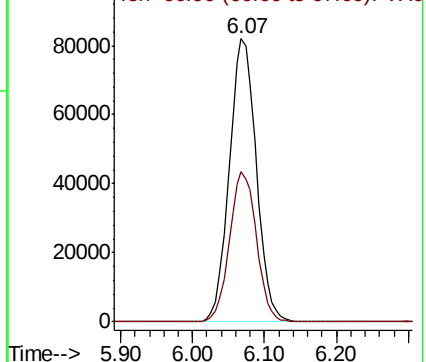
Ion Ratio Lower Upper

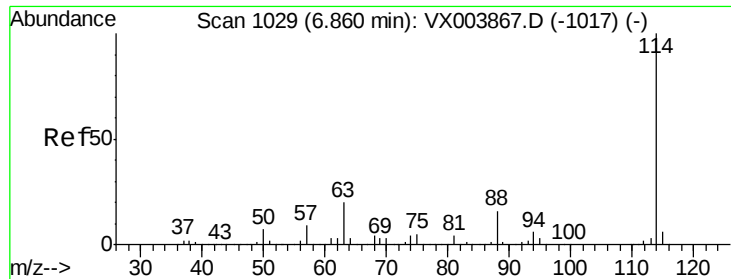
65 100

67 53.0 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

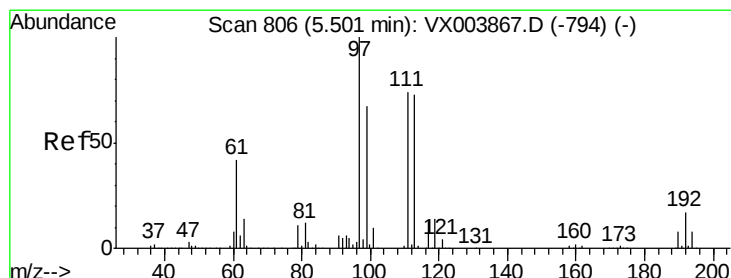
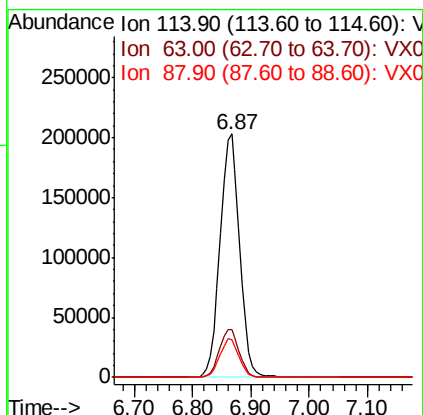
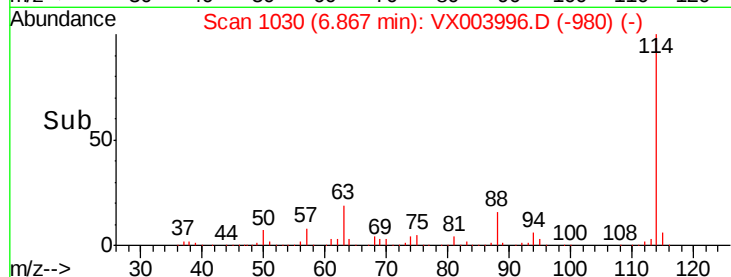
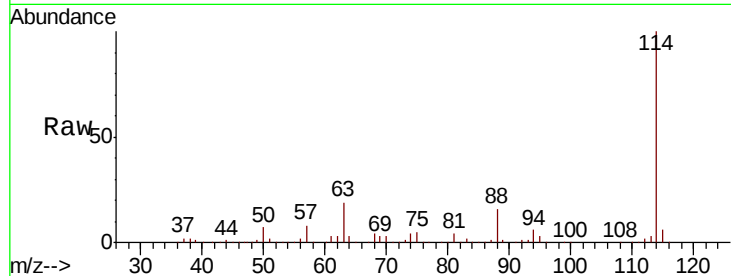




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.01 min
 Lab File: VX003996.D
 Acq: 13 Aug 2018 13:29

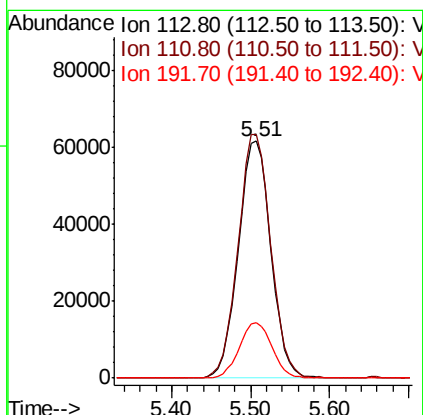
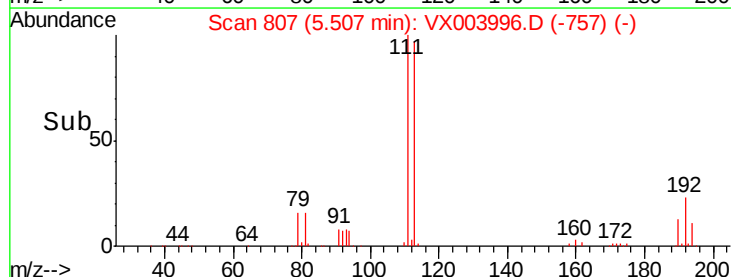
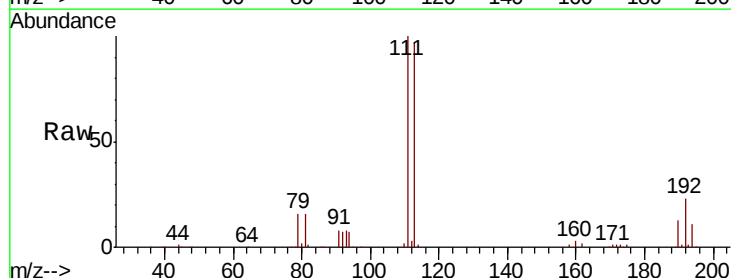
Instrument :
 MSVOA_X
 ClientSampled :
 IDW-SO3-SRI3

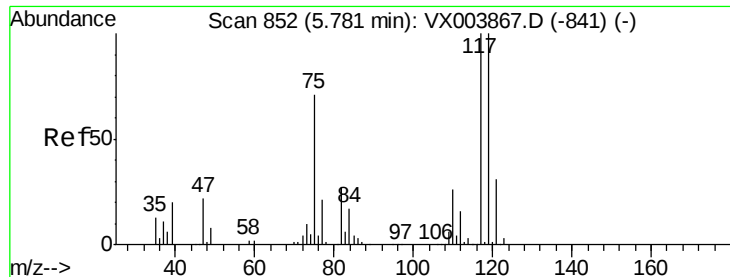
Tot Ion:114 Resp: 473311
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.0
 88 15.6 0.0 32.0



#35
 Dibromofluoromethane
 Concen: 49.39 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX003996.D
 Acq: 13 Aug 2018 13:29

Tgt Ion:113 Resp: 177087
 Ion Ratio Lower Upper
 113 100
 111 103.1 82.0 123.0
 192 23.5 19.0 28.4

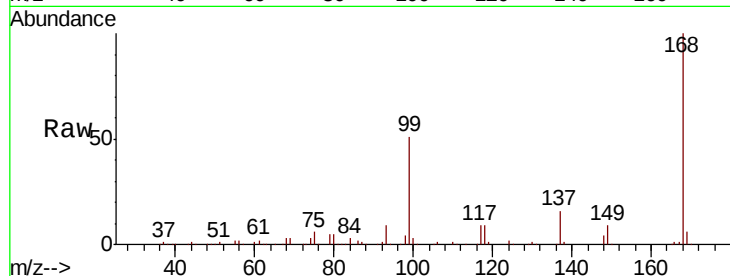




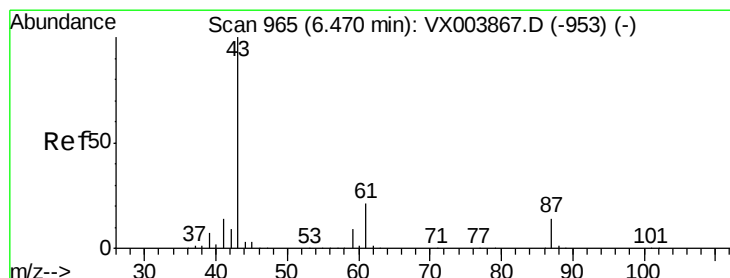
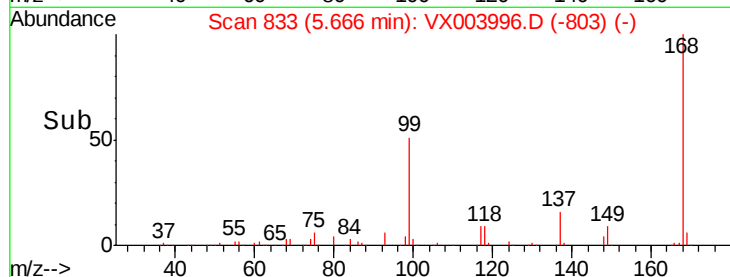
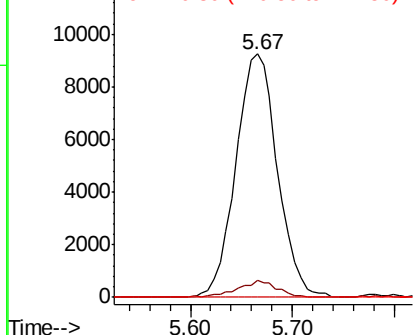
#38
Carbon Tetrachloride
Concen: 5.17 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX003996.D
Acq: 13 Aug 2018 13:29

Instrument :
MSVOA_X
ClientSampleId :
IDW-SO3-SRI3

Tot Ion:117 Resp: 26100
Ion Ratio Lower Upper
117 100
119 6.8 79.5 119.3#
121 0.0 25.0 37.4#

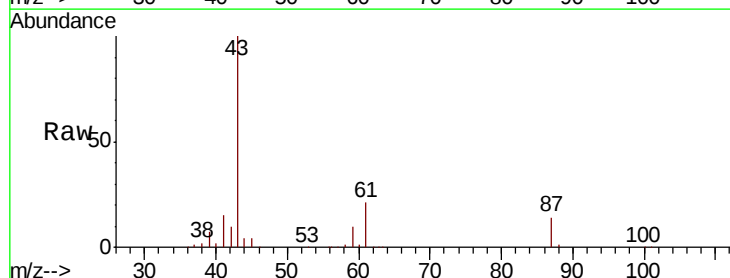


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

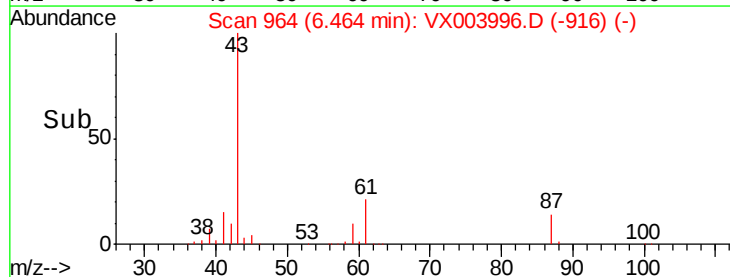
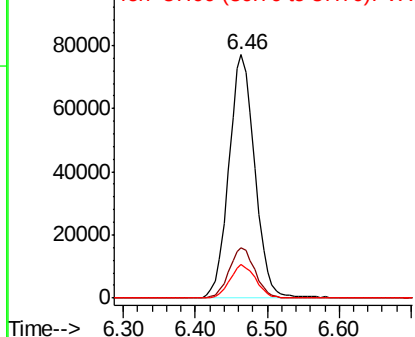


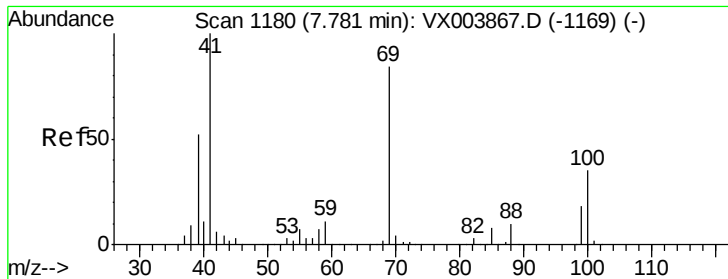
#43
Isopropyl Acetate
Concen: 21.94 ug/l
RT: 6.46 min Scan# 964
Delta R.T. -0.01 min
Lab File: VX003996.D
Acq: 13 Aug 2018 13:29

Tgt Ion: 43 Resp: 192538
Ion Ratio Lower Upper
43 100
61 20.7 16.9 25.3
87 13.7 11.3 16.9



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0





#48

Methyl methacrylate

Concen: 0.38 ug/l

RT: 7.82 min Scan# 1186

Delta R.T. 0.04 min

Lab File: VX003996.D

Acq: 13 Aug 2018 13:29

Instrument :

MSVOA_X

ClientSampleId :

IDW-SO3-SRI3

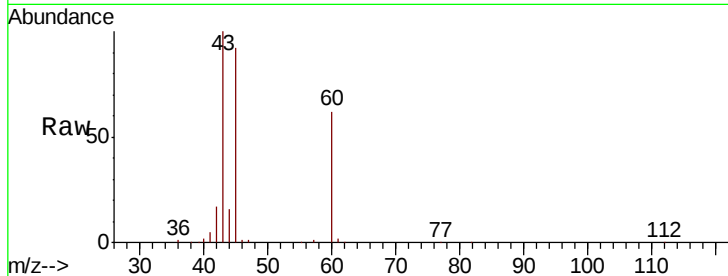
Tot Ion: 41 Resp: 1709

Ion Ratio Lower Upper

41 100

69 0.0 68.8 103.2#

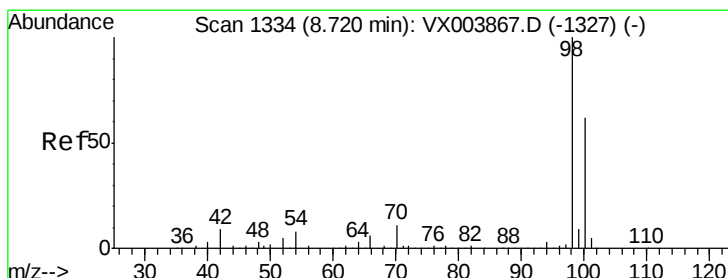
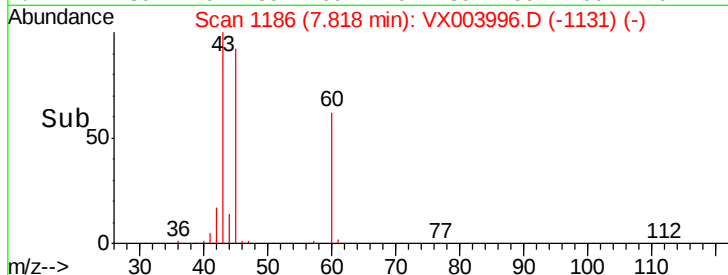
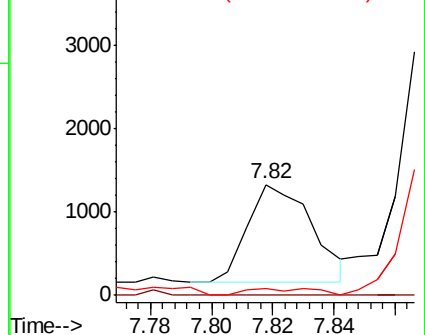
39 0.0 42.3 63.5#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#50

Toluene-d8

Concen: 48.53 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003996.D

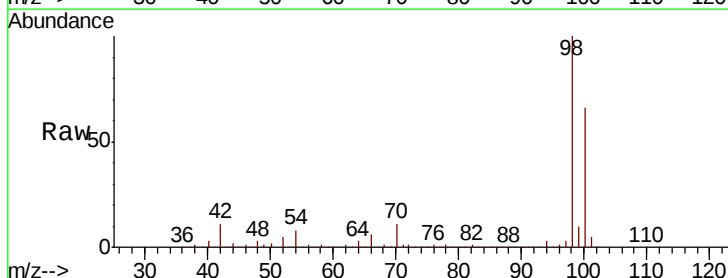
Acq: 13 Aug 2018 13:29

Tgt Ion: 98 Resp: 676758

Ion Ratio Lower Upper

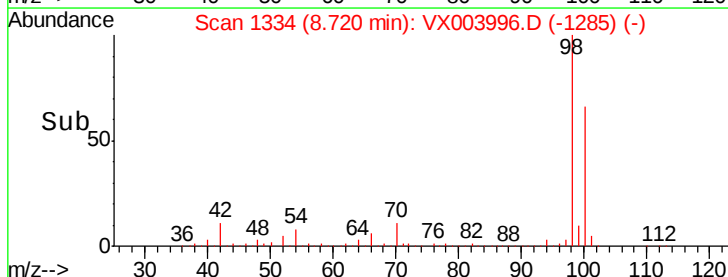
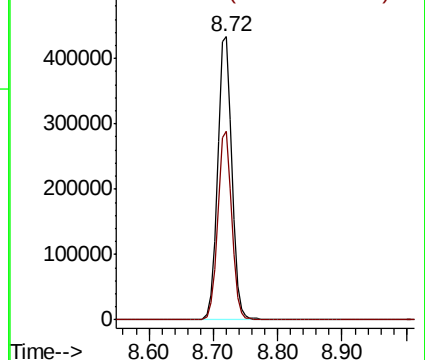
98 100

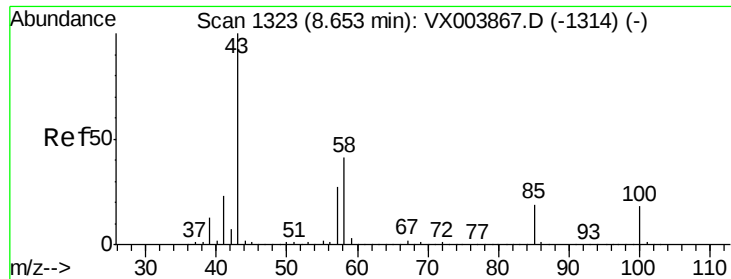
100 65.6 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.22 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. 0.00 min

Lab File: VX003996.D

Acq: 13 Aug 2018 13:29

Instrument :

MSVOA_X

ClientSampleId :

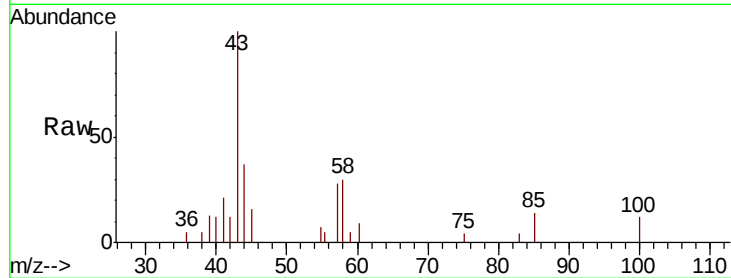
IDW-SO3-SRI3

Tot Ion: 43 Resp: 1631

Ion Ratio Lower Upper

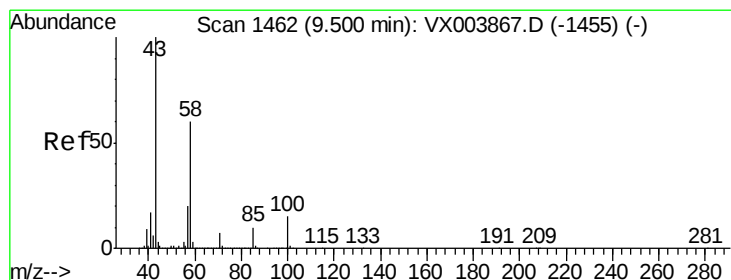
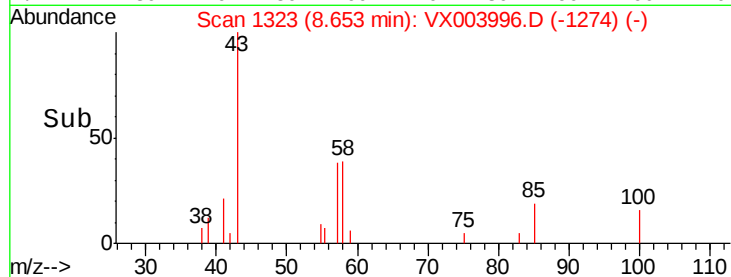
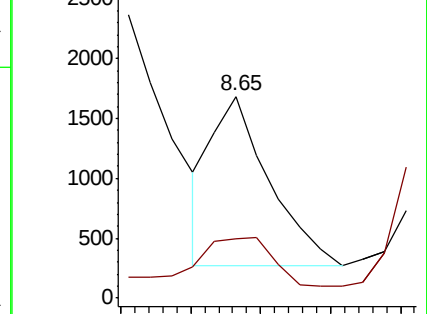
43 100

58 73.7 33.0 49.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#59

2-Hexanone

Concen: 2.37 ug/l

RT: 9.55 min Scan# 1470

Delta R.T. 0.05 min

Lab File: VX003996.D

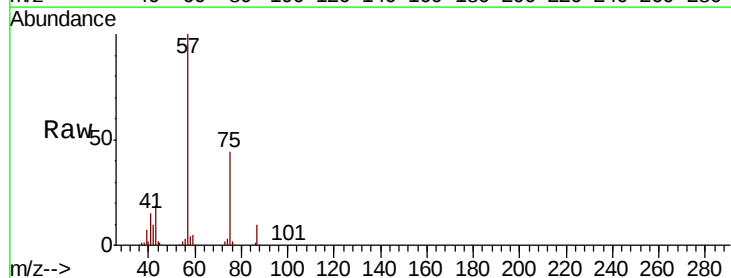
Acq: 13 Aug 2018 13:29

Tgt Ion: 43 Resp: 12868

Ion Ratio Lower Upper

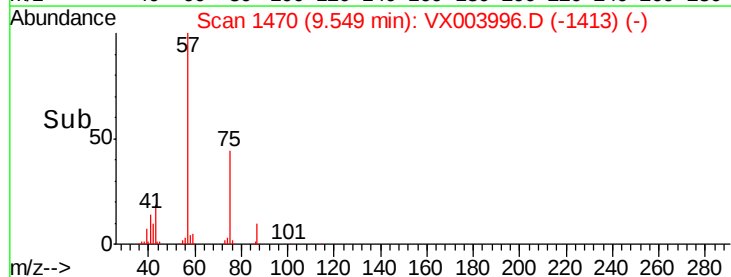
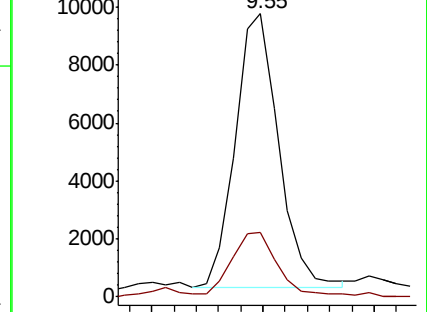
43 100

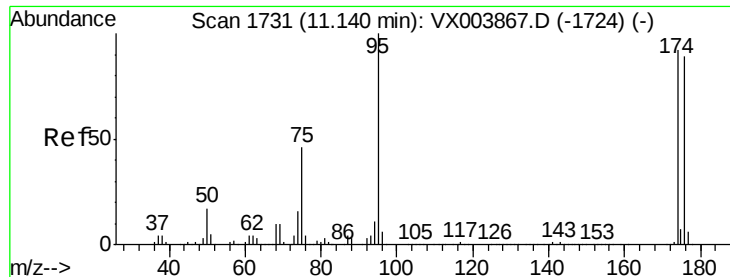
58 25.7 29.0 87.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

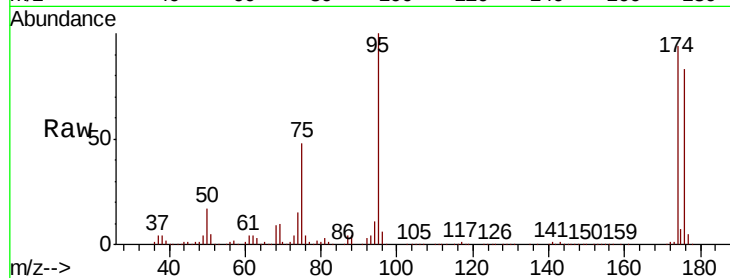




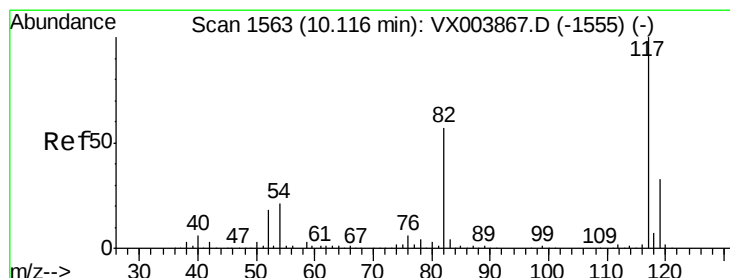
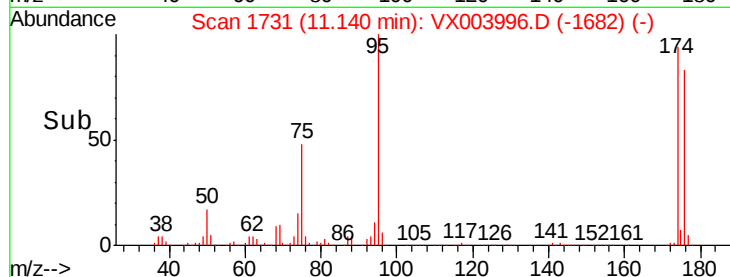
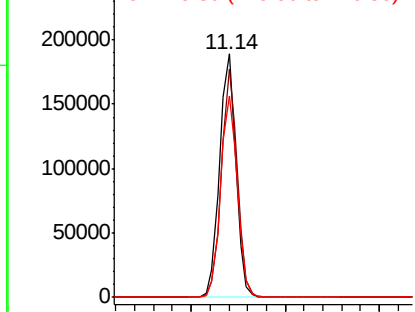
#62
4-Bromofluorobenzene
Concen: 50.58 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003996.D
Acq: 13 Aug 2018 13:29

Instrument :
MSVOA_X
ClientSampleId :
IDW-SO3-SRI3

Tot Ion: 95 Resp: 228199
Ion Ratio Lower Upper
95 100
174 91.3 0.0 182.8
176 84.4 0.0 179.0

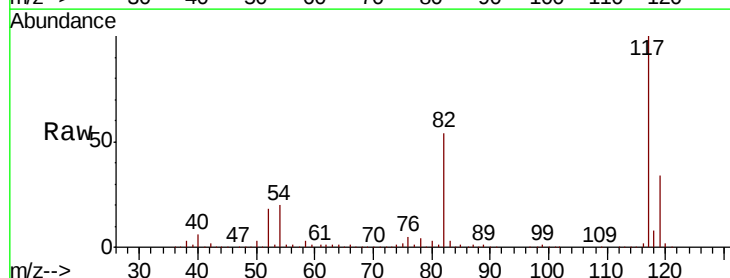


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

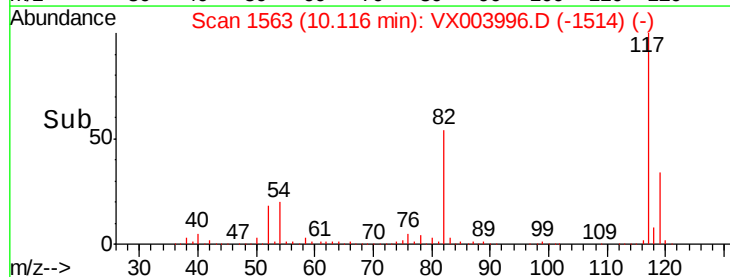
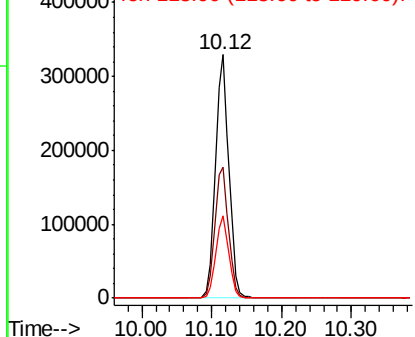


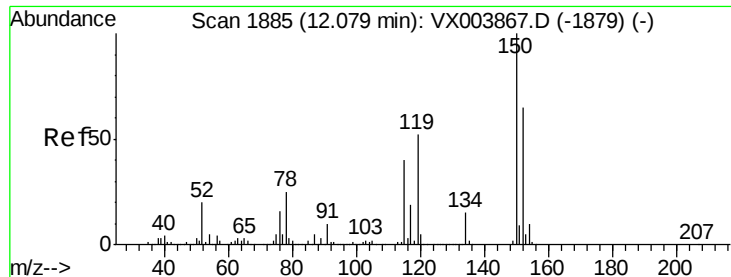
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003996.D
Acq: 13 Aug 2018 13:29

Tgt Ion: 117 Resp: 435220
Ion Ratio Lower Upper
117 100
82 53.6 45.4 68.0
119 33.8 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: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003996.D

Acq: 13 Aug 2018 13:29

Instrument :

MSVOA_X

ClientSampleId :

IDW-SO3-SRI3

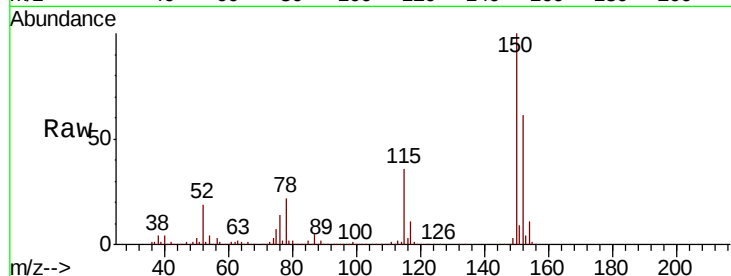
Tot Ion:152 Resp: 230438

Ion Ratio Lower Upper

152 100

115 56.7 39.1 117.3

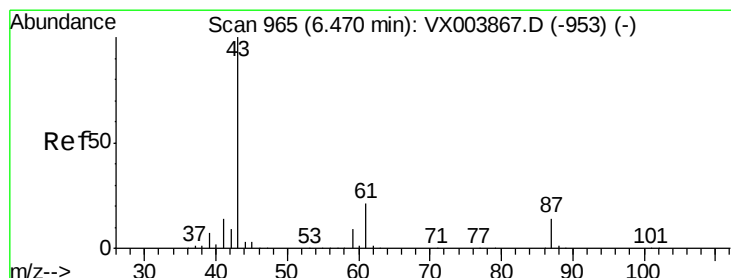
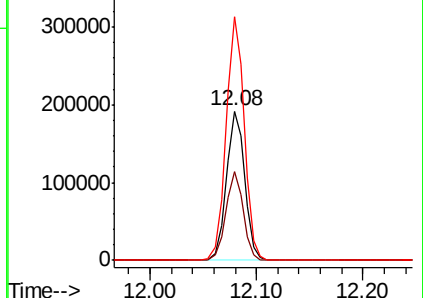
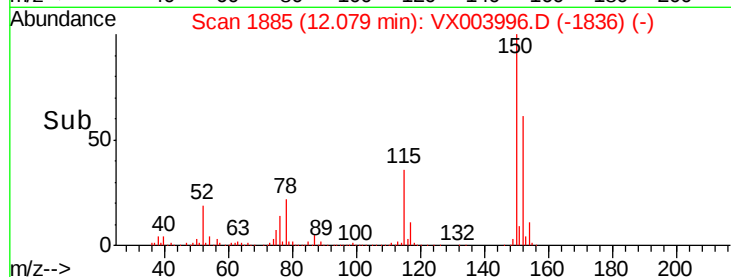
150 161.7 0.0 349.2



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



#74

N-ethyl acetate

Concen: 21.72 ug/l

RT: 6.46 min Scan# 964

Delta R.T. -0.01 min

Lab File: VX003996.D

Acq: 13 Aug 2018 13:29

Tgt Ion: 43 Resp: 192538

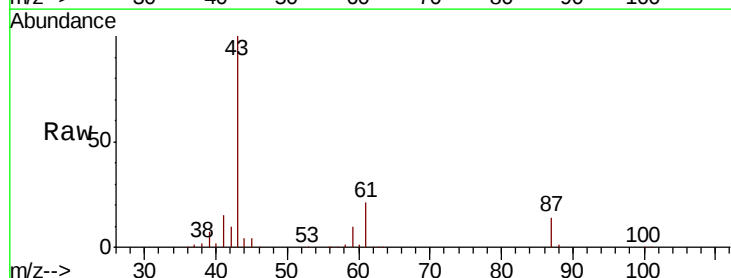
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.1 0.1 0.1#

61 20.7 16.9 25.3

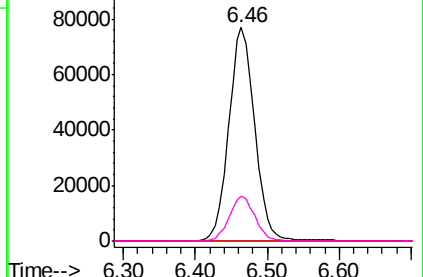
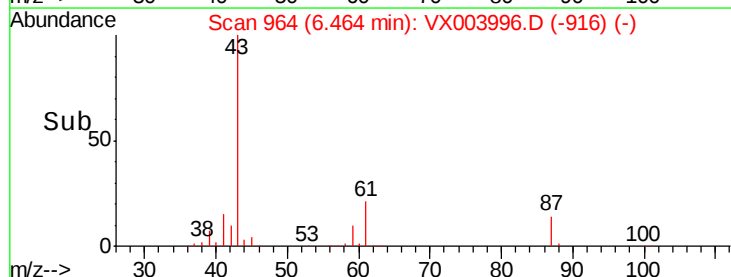


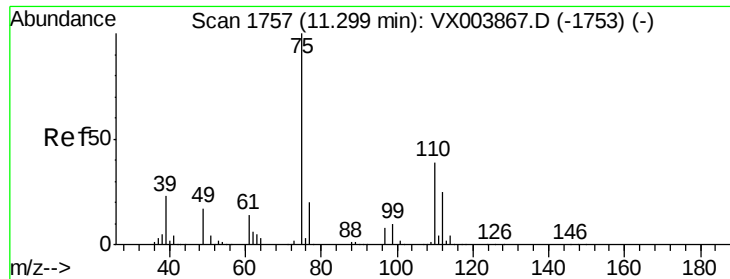
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

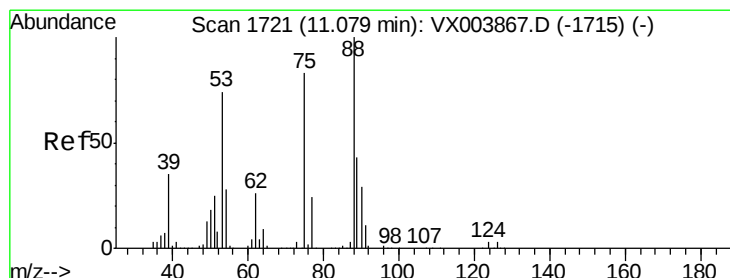
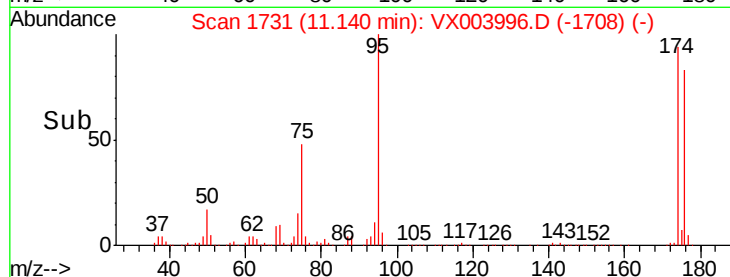
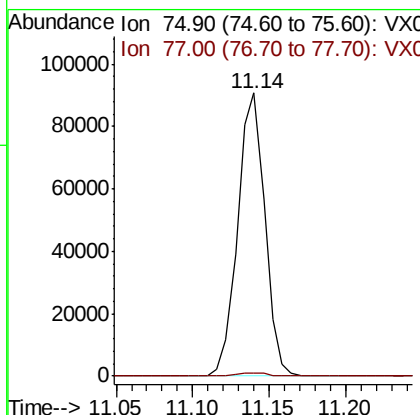
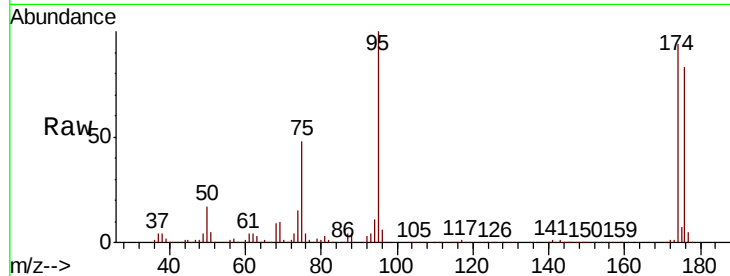




#76
 1,2,3-Trichloropropane
 Concen: 21.93 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003996.D
 Acq: 13 Aug 2018 13:29

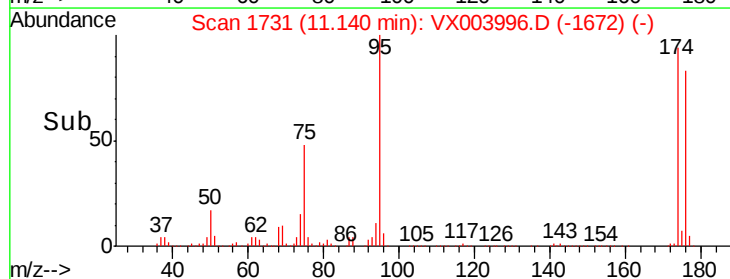
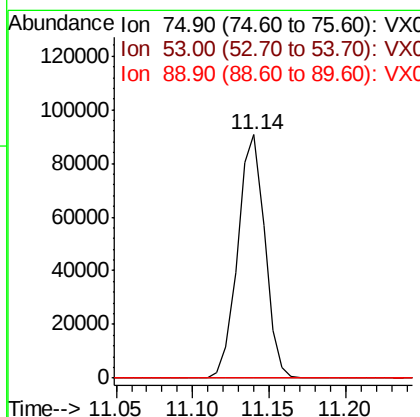
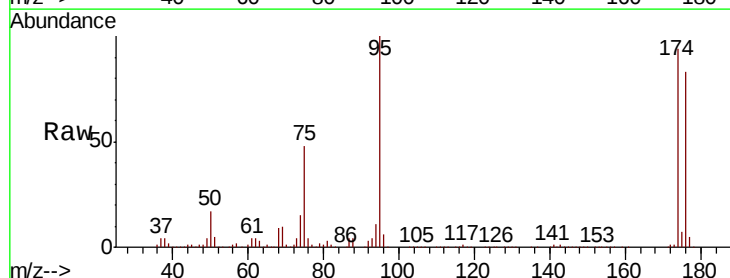
Instrument :
 MSVOA_X
 ClientSampleId :
 IDW-SO3-SRI3

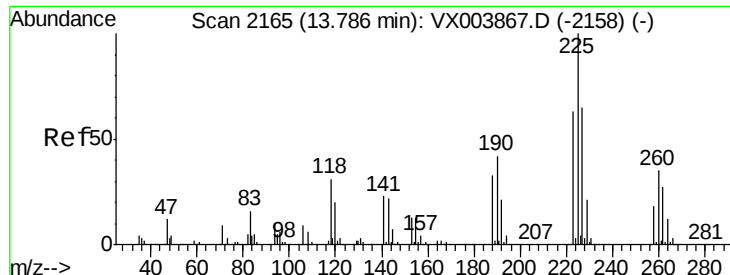
Tot Ion: 75 Resp: 111627
 Ion Ratio Lower Upper
 75 100
 77 1.4 20.8 62.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.84 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003996.D
 Acq: 13 Aug 2018 13:29

Tgt Ion: 75 Resp: 111627
 Ion Ratio Lower Upper
 75 100
 53 0.2 80.3 120.5#
 89 0.0 37.8 56.8#





#94

Hexachlorobutadiene

Concen: 0.21 ug/l

RT: 13.78 min Scan# 2164

Delta R.T. -0.01 min

Lab File: VX003996.D

Acq: 13 Aug 2018 13:29

Instrument :

MSVOA_X

ClientSampleId :

IDW-SO3-SRI3

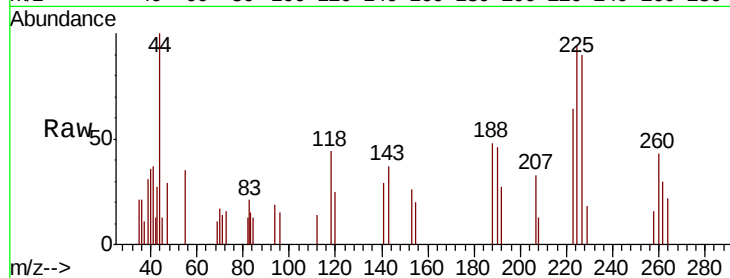
Tot Ion: 225 Resp: 597

Ion Ratio Lower Upper

225 100

223 83.4 31.4 94.0

227 81.1 32.1 96.5



Abundance Ion 224.70 (224.40 to 225.40): V

600 Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

500

400

300

200

100

0

13.75

13.80

Time-->

