

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091718\
 Data File : VX004628.D
 Acq On : 17 Sep 2018 19:32
 Operator : JC/MD
 Sample : PB112894ZHE#03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 18 00:55:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	215300	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	331104	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	317445	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	170810	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	145692	52.48	ug/l	0.00
Spiked Amount			Recovery	=	104.96%	
35) Dibromofluoromethane	5.51	113	137184	45.28	ug/l	0.00
Spiked Amount			Recovery	=	90.56%	
50) Toluene-d8	8.71	98	459858	45.26	ug/l	0.00
Spiked Amount			Recovery	=	90.52%	
62) 4-Bromofluorobenzene	11.14	95	162139	44.70	ug/l	0.00
Spiked Amount			Recovery	=	89.40%	

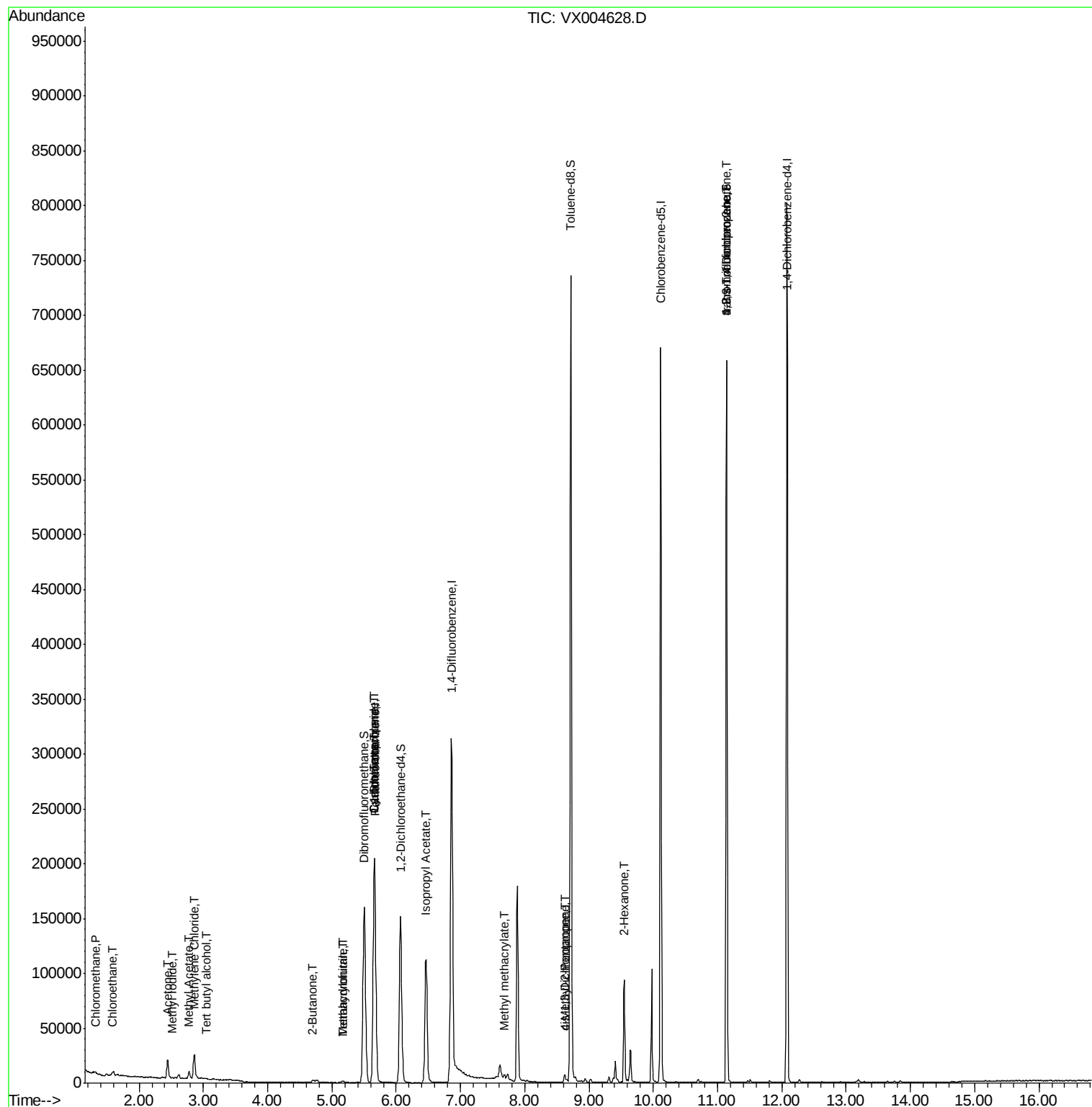
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	674	0.24	ug/l	98
5) Bromomethane	1.65	94	761	Below Cal		94
6) Chloroethane	1.58	64	2218	1.20	ug/l #	66
10) Methyl Iodide	2.51	142	376	4.38	ug/l #	57
11) Tert butyl alcohol	3.06	59	363	0.55	ug/l #	77
16) Acetone	2.44	43	18965	14.00	ug/l #	88
18) Methyl Acetate	2.78	43	7934	2.09	ug/l	98
20) Methylene Chloride	2.86	84	11233	4.04	ug/l	91
25) 2-Butanone	4.70	43	4861	2.25	ug/l	99
29) Tetrahydrofuran	5.17	42	1625	1.25	ug/l #	86
31) Cyclohexane	5.66	56	3456	0.86	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14463	3.60	ug/l #	49
38) Carbon Tetrachloride	5.65	117	19156	4.88	ug/l #	15
41) Methacrylonitrile	5.17	41	992	0.39	ug/l #	47
43) Isopropyl Acetate	6.46	43	148949	24.53	ug/l	98
48) Methyl methacrylate	7.69	41	5750	1.91	ug/l #	21
51) 4-Methyl-2-Pentanone	8.62	43	2336	0.55	ug/l #	34
54) cis-1,3-Dichloropropene	8.62	75	1233	0.30	ug/l #	66
59) 2-Hexanone	9.55	43	9994	3.04	ug/l #	56
76) 1,2,3-Trichloropropane	11.14	75	76103	22.15	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	76103	70.59	ug/l #	10

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

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MSVOA_X
ClientSampled :

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 12 02:17:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX004628.D

Acq: 17 Sep 2018 19:32

Instrument :

MSVOA_X

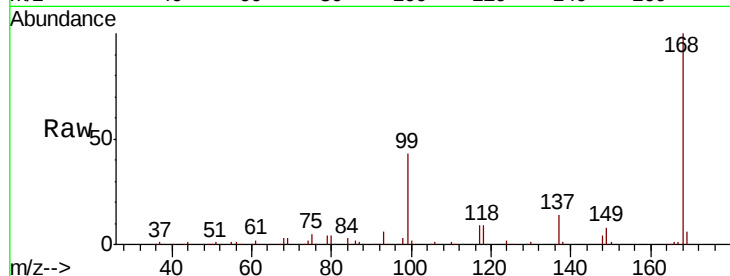
ClientSampleId :

Tot Ion:168 Resp: 215300

Ion Ratio Lower Upper

168 100

99 43.2 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

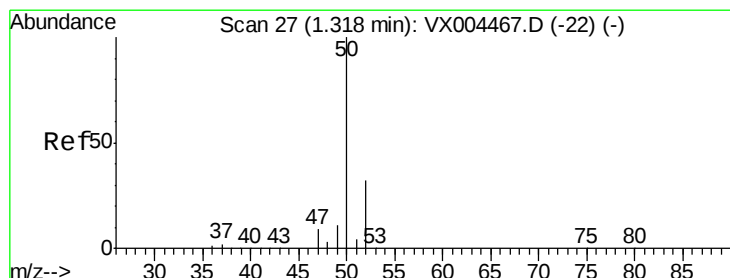
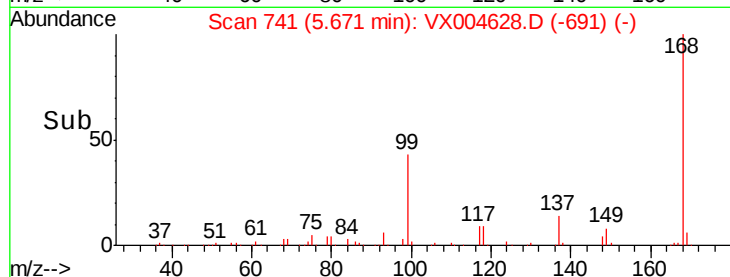
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.24 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX004628.D

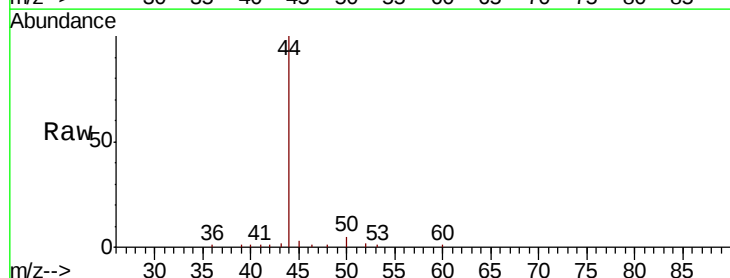
Acq: 17 Sep 2018 19:32

Tgt Ion: 50 Resp: 674

Ion Ratio Lower Upper

50 100

52 33.8 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

500

400

300

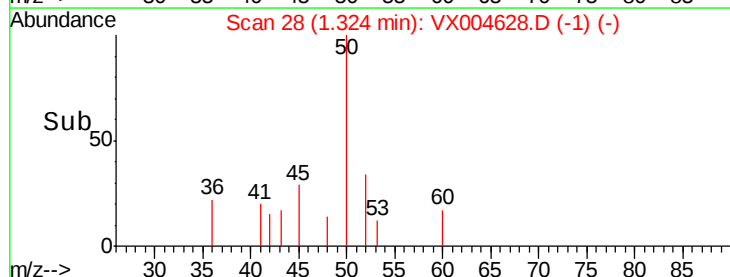
200

100

0

Time-->

1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX004628.D

Acq: 17 Sep 2018 19:32

Instrument :

MSVOA_X

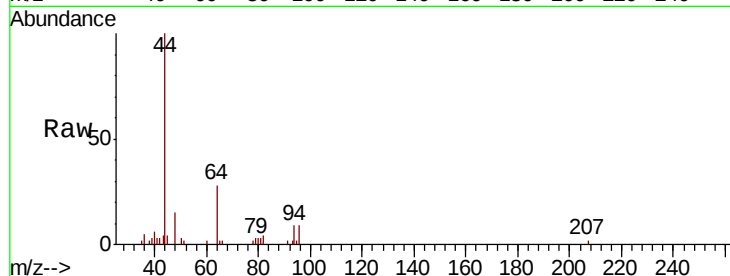
ClientSampleId :

Tot Ion: 94 Resp: 761

Ion Ratio Lower Upper

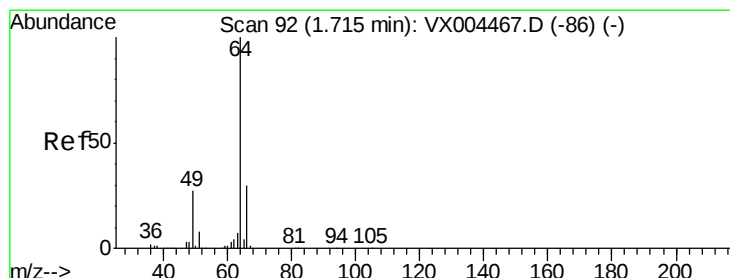
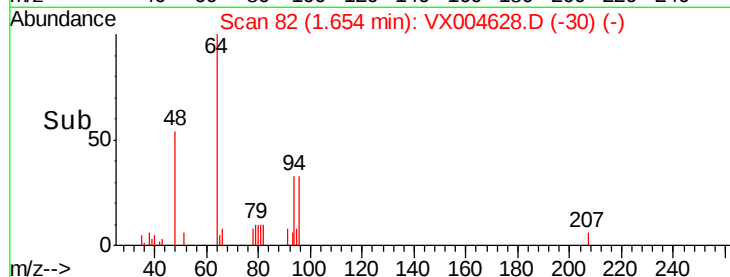
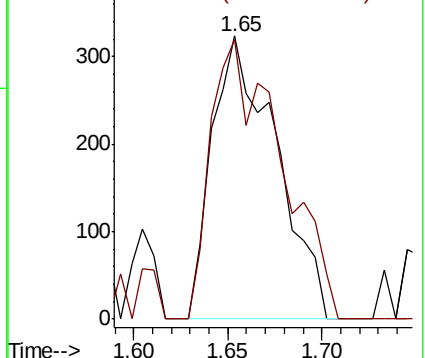
94 100

96 99.1 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.20 ug/l

RT: 1.58 min Scan# 70

Delta R.T. -0.13 min

Lab File: VX004628.D

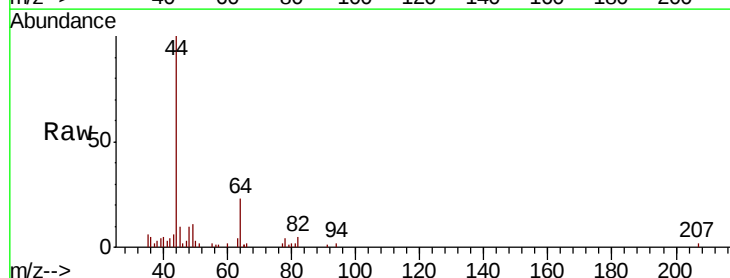
Acq: 17 Sep 2018 19:32

Tgt Ion: 64 Resp: 2218

Ion Ratio Lower Upper

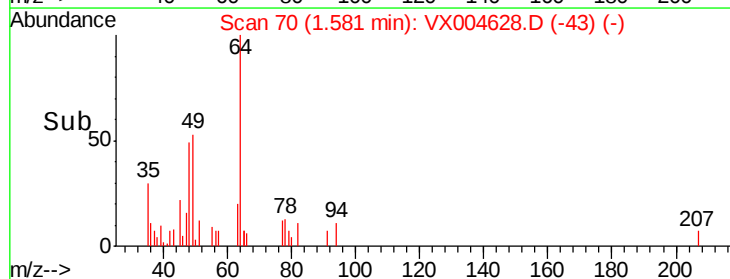
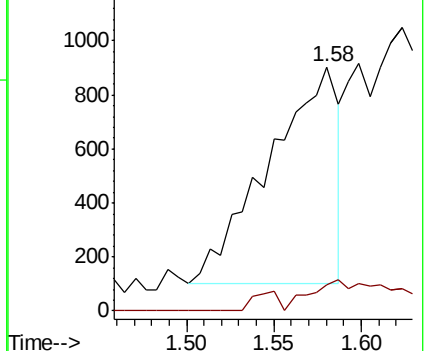
64 100

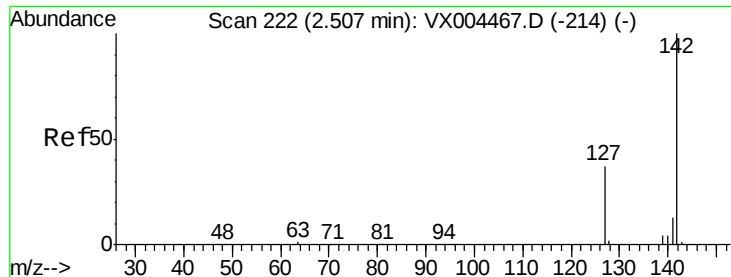
66 12.3 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

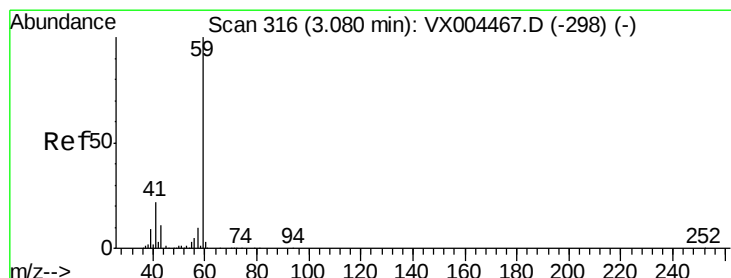
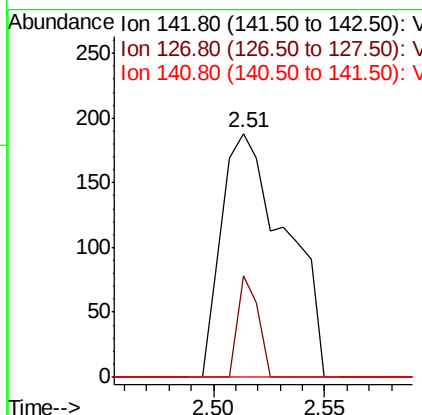
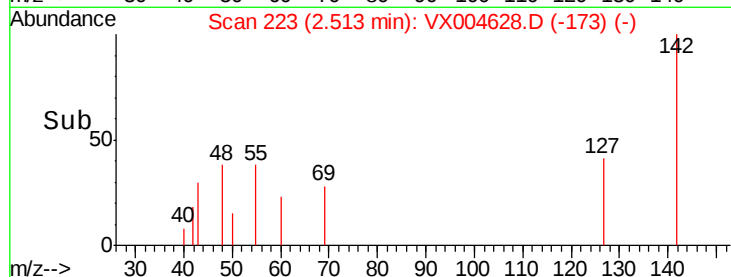
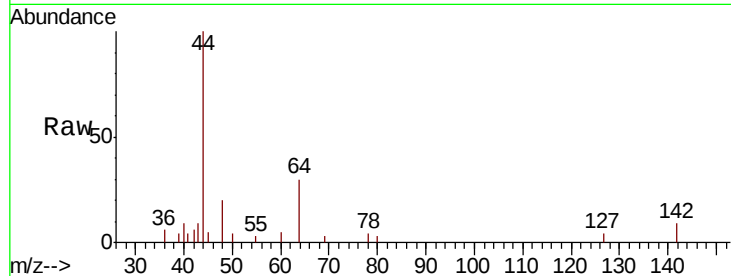




#10
Methvl Iodide
Concen: 4.38 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX004628.D
Acq: 17 Sep 2018 19:32

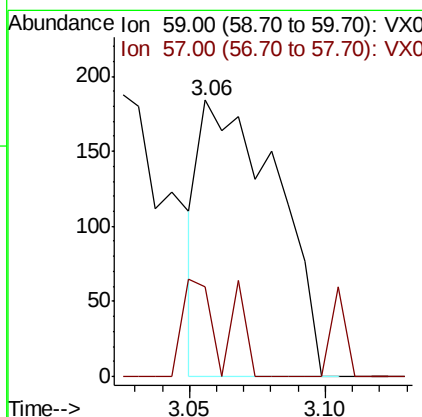
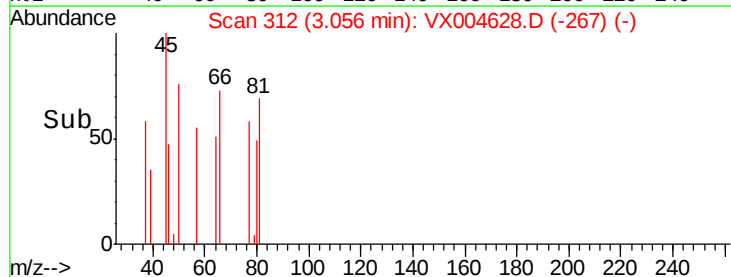
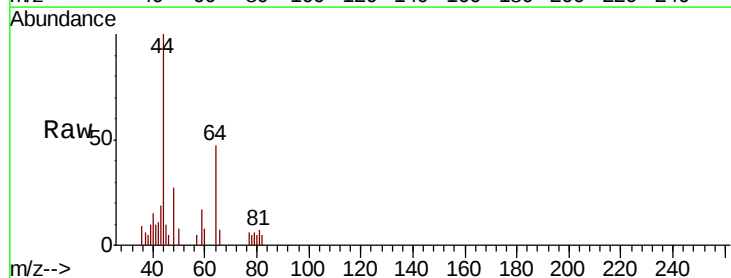
Instrument :
MSVOA_X
ClientSampleId :

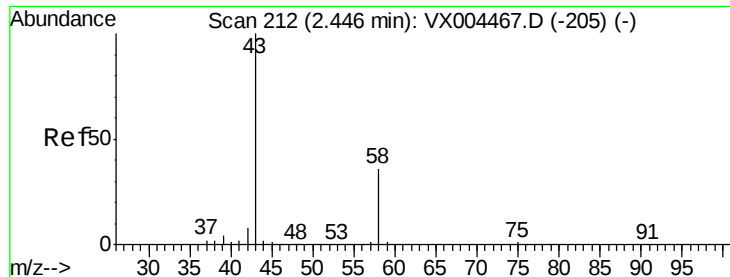
Tot Ion:142 Resp: 376
Ion Ratio Lower Upper
142 100
127 13.0 33.8 50.6#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.55 ug/l
RT: 3.06 min Scan# 312
Delta R.T. -0.02 min
Lab File: VX004628.D
Acq: 17 Sep 2018 19:32

Tgt Ion: 59 Resp: 363
Ion Ratio Lower Upper
59 100
57 19.0 8.2 12.4#

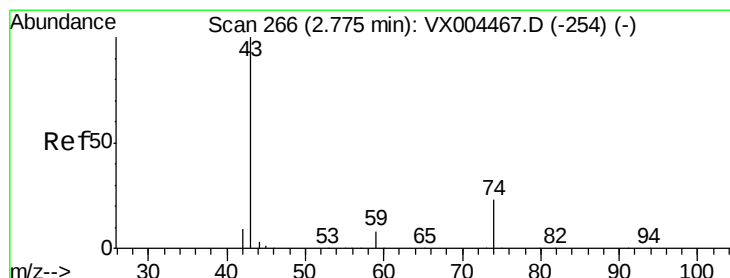
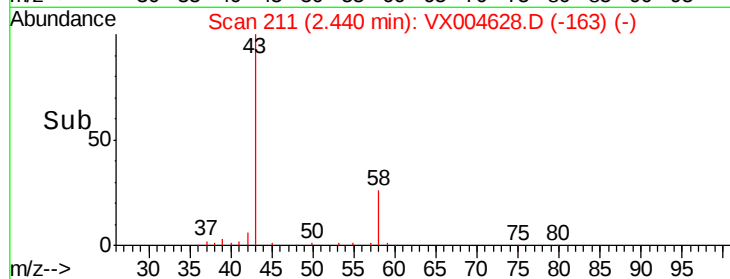
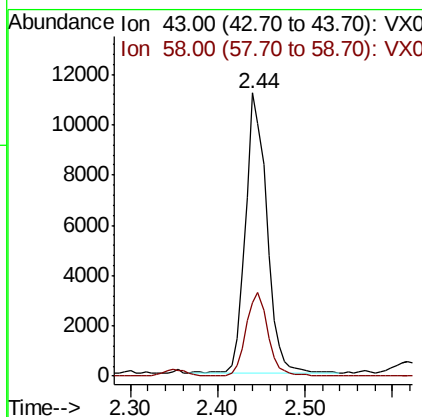
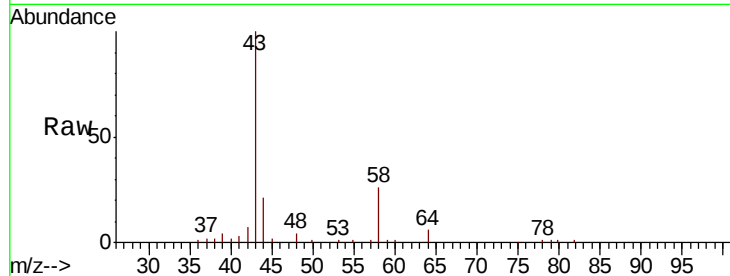




#16
Acetone
Concen: 14.00 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX004628.D
Acq: 17 Sep 2018 19:32

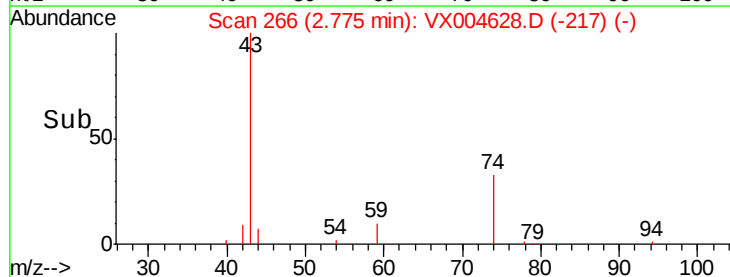
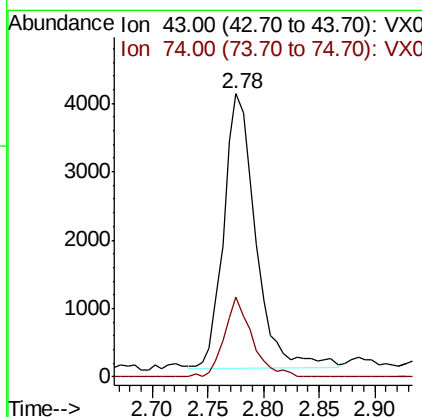
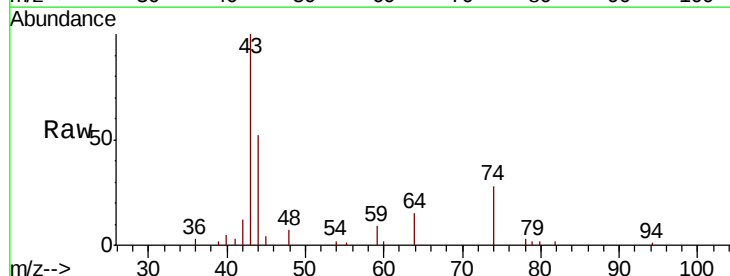
Instrument :
MSVOA_X
ClientSampleId :

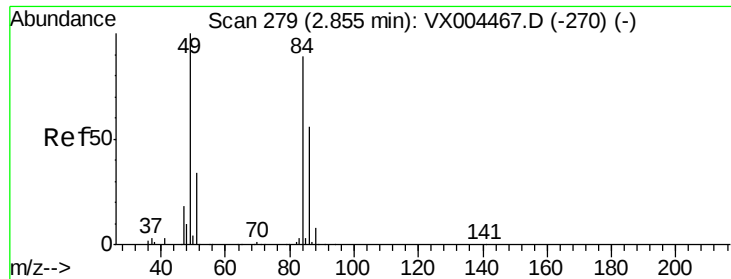
Tot Ion: 43 Resp: 18965
Ion Ratio Lower Upper
43 100
58 26.2 26.2 39.4#



#18
Methyl Acetate
Concen: 2.09 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX004628.D
Acq: 17 Sep 2018 19:32

Tgt Ion: 43 Resp: 7934
Ion Ratio Lower Upper
43 100
74 25.4 19.4 29.2

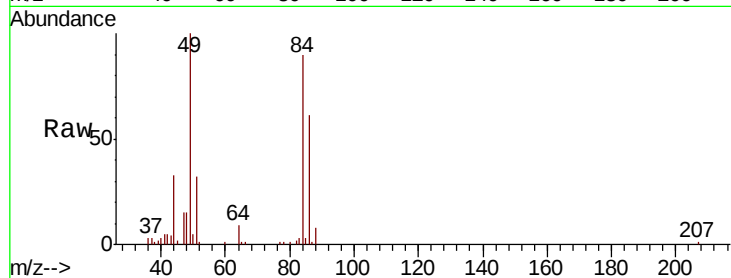




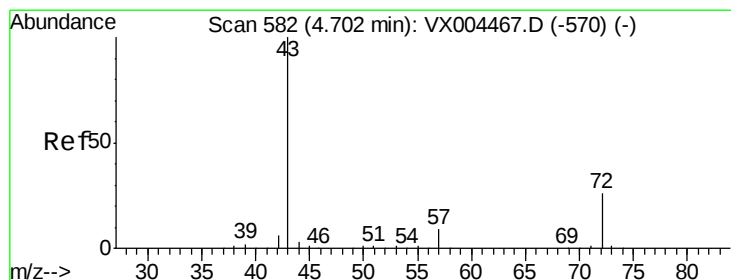
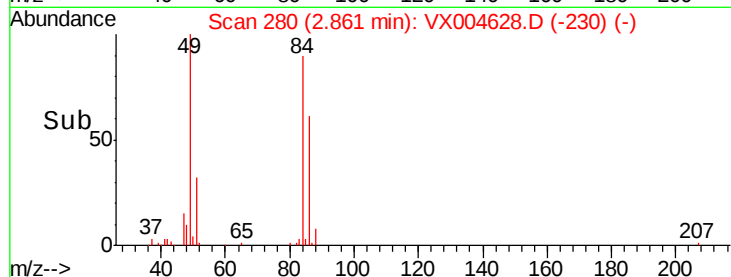
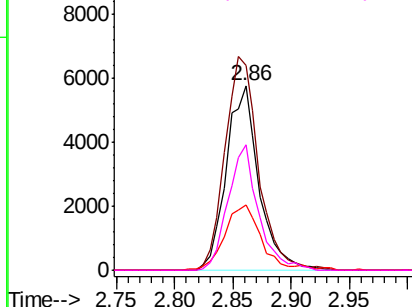
#20
Methvlene Chloride
Concen: 4.04 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX004628.D
Acq: 17 Sep 2018 19:32

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 84 Resp: 11233
Ion Ratio Lower Upper
84 100
49 111.0 101.2 151.8
51 35.3 29.5 44.3
86 67.7 52.3 78.5

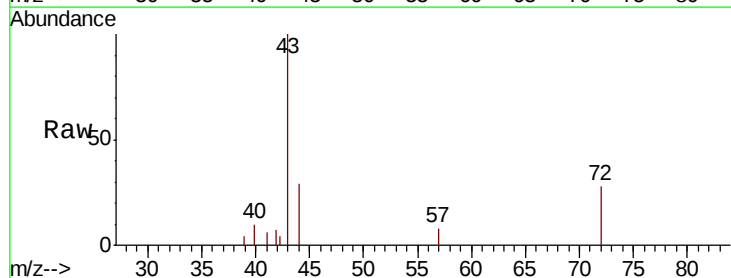


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

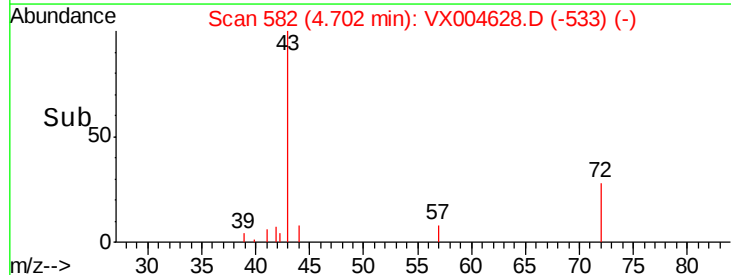
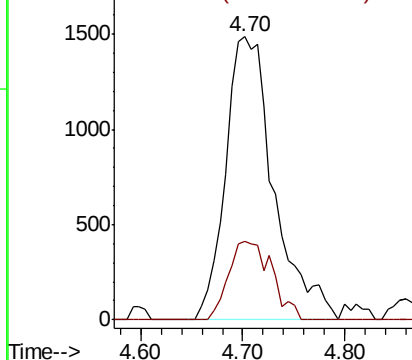


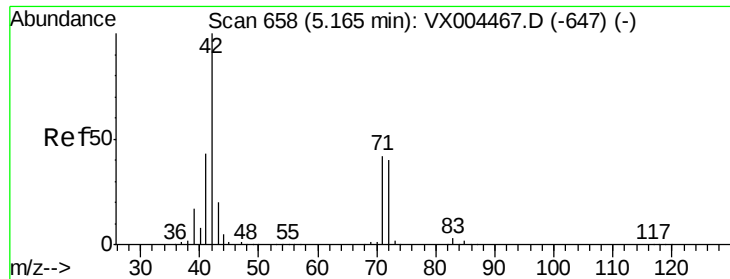
#25
2-Butanone
Concen: 2.25 ug/l
RT: 4.70 min Scan# 582
Delta R.T. -0.00 min
Lab File: VX004628.D
Acq: 17 Sep 2018 19:32

Tgt Ion: 43 Resp: 4861
Ion Ratio Lower Upper
43 100
72 27.8 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 1.25 ug/l

RT: 5.17 min Scan# 658

Delta R.T. -0.00 min

Lab File: VX004628.D

Acq: 17 Sep 2018 19:32

Instrument :

MSVOA_X

ClientSampleId :

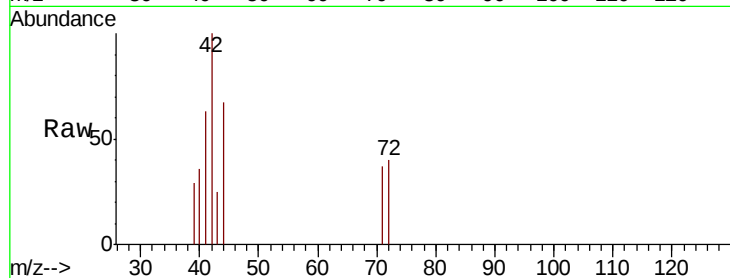
Tot Ion: 42 Resp: 1625

Ion Ratio Lower Upper

42 100

72 33.9 37.4 56.0#

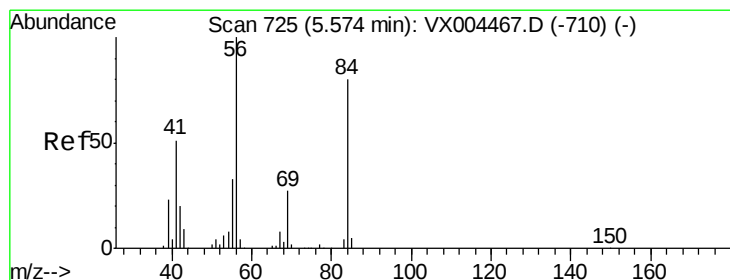
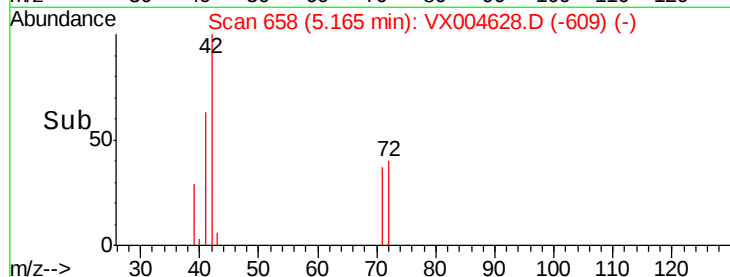
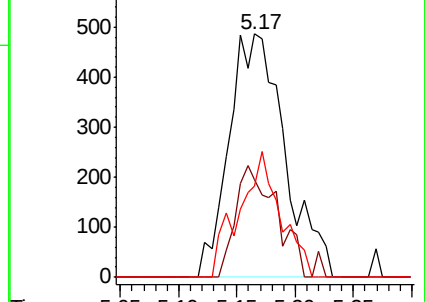
71 38.2 34.5 51.7



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: 0.86 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX004628.D

Acq: 17 Sep 2018 19:32

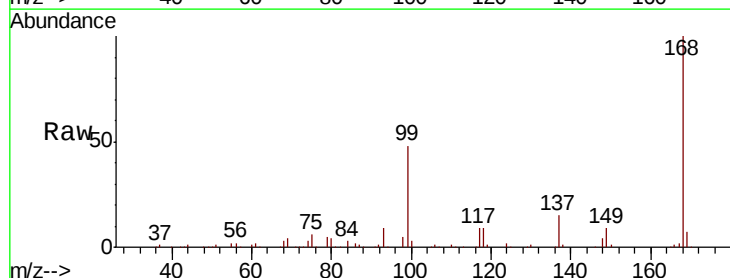
Tgt Ion: 56 Resp: 3456

Ion Ratio Lower Upper

56 100

69 205.9 25.4 38.2#

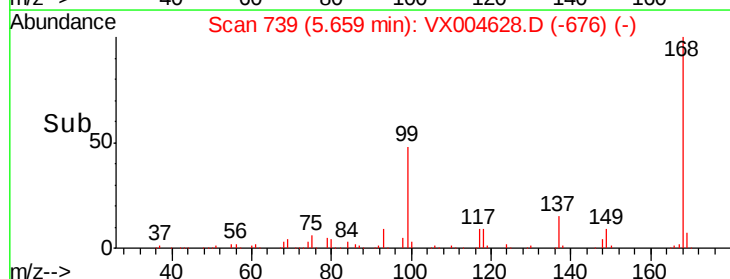
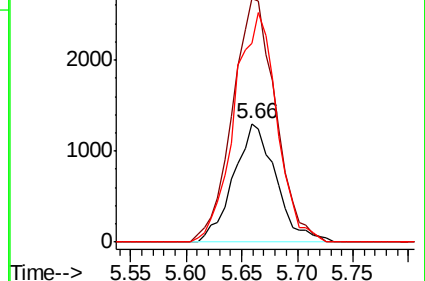
84 168.3 71.4 107.2#

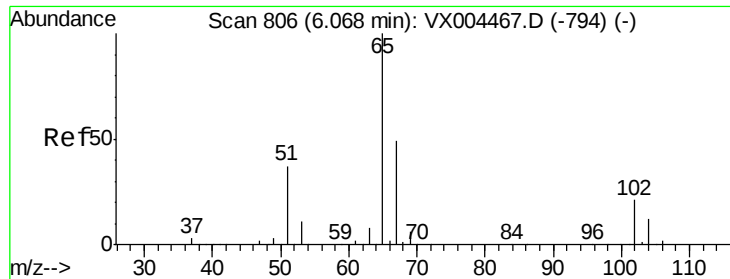


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 52.48 ug/l

RT: 6.07 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX004628.D

Acq: 17 Sep 2018 19:32

Instrument :

MSVOA_X

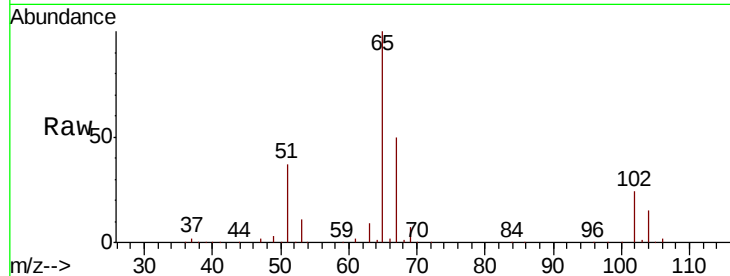
ClientSampleId :

Tot Ion: 65 Resp: 145692

Ion Ratio Lower Upper

65 100

67 53.5 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

60000

50000

40000

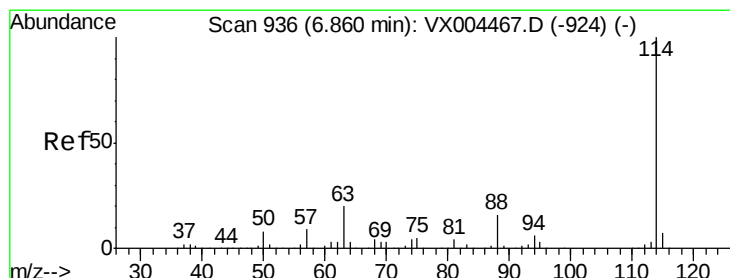
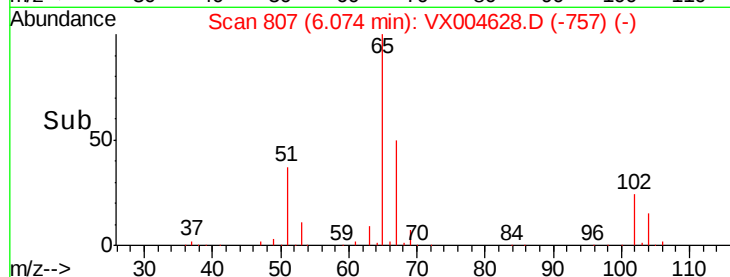
30000

20000

10000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX004628.D

Acq: 17 Sep 2018 19:32

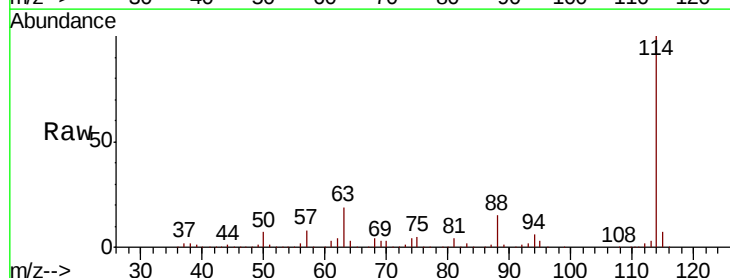
Tgt Ion: 114 Resp: 331104

Ion Ratio Lower Upper

114 100

63 18.9 0.0 39.0

88 14.9 0.0 30.4



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

6.86

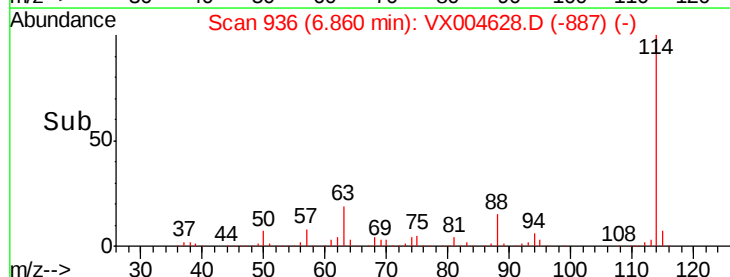
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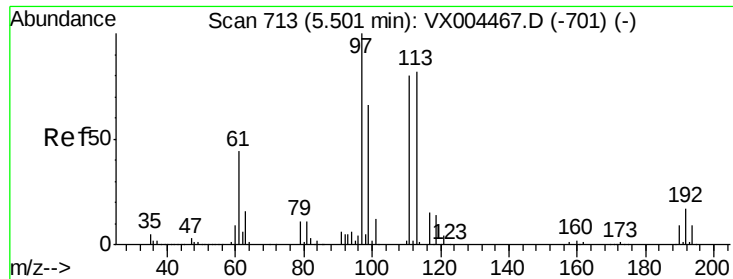
100000

50000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 45.28 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX004628.D

Acq: 17 Sep 2018 19:32

Instrument :

MSVOA_X

ClientSampleId :

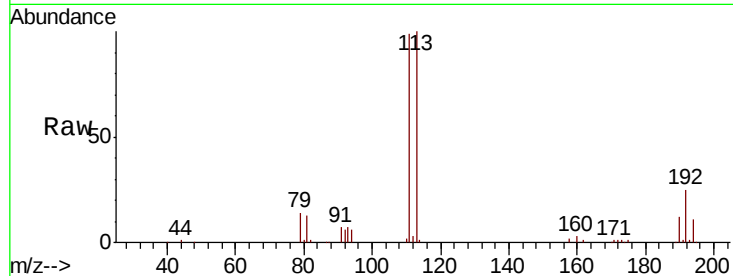
Tot Ion:113 Resp: 137184

Ion Ratio Lower Upper

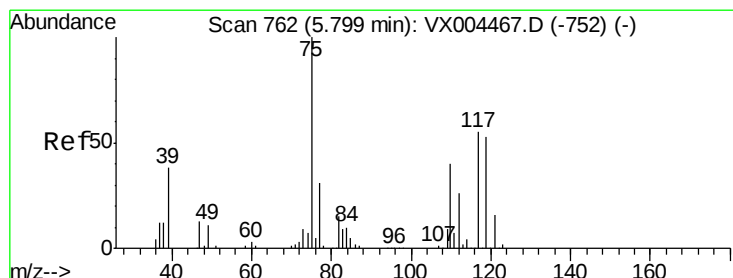
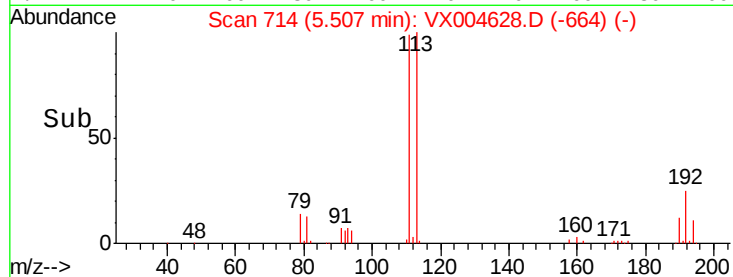
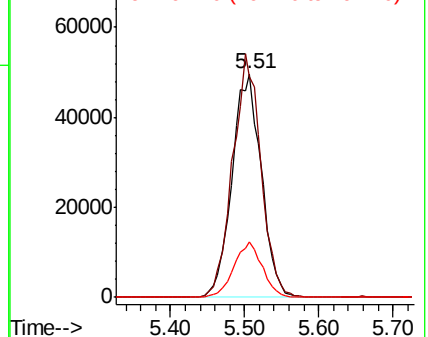
113 100

111 104.7 82.4 123.6

192 24.0 19.4 29.2



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: 3.60 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX004628.D

Acq: 17 Sep 2018 19:32

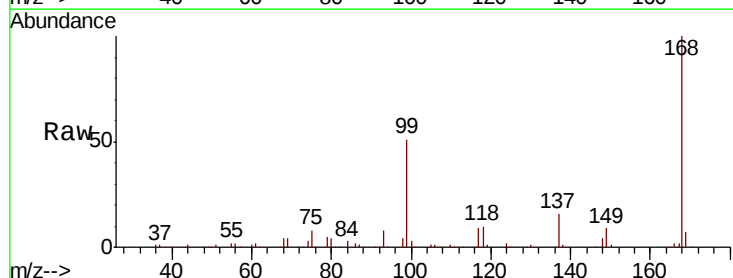
Tgt Ion: 75 Resp: 14463

Ion Ratio Lower Upper

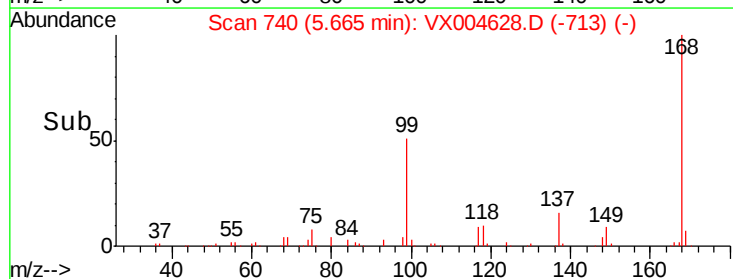
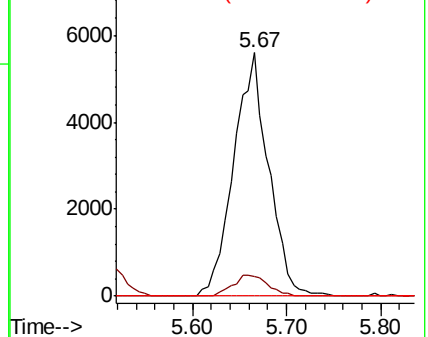
75 100

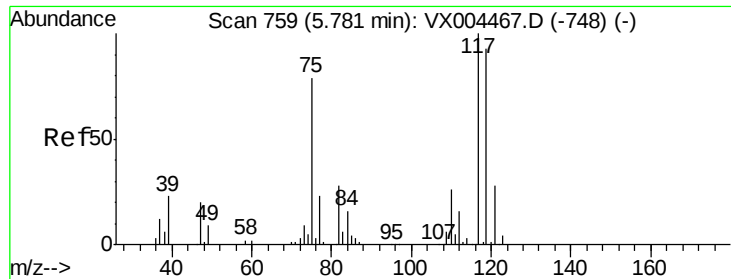
110 8.6 18.0 54.0#

77 0.0 24.6 36.8#



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: 4.88 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX004628.D

Acq: 17 Sep 2018 19:32

Instrument :

MSVOA_X

ClientSampled :

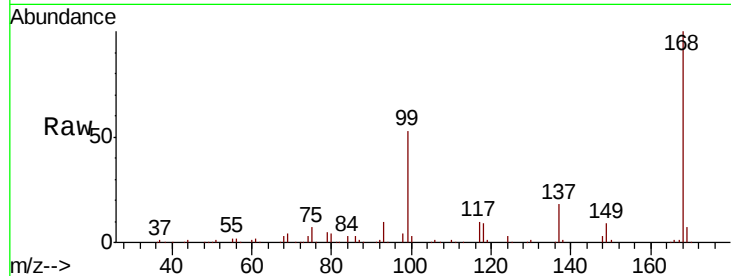
Tot Ion:117 Resp: 19156

Ion Ratio Lower Upper

117 100

119 5.9 78.8 118.2#

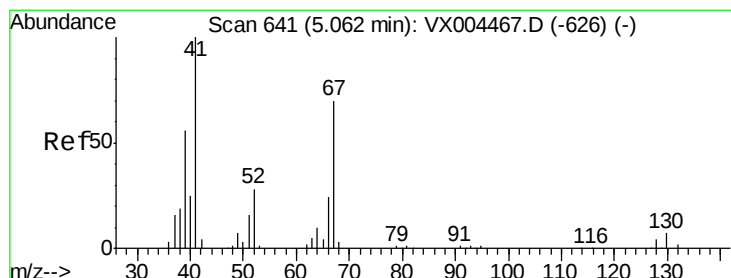
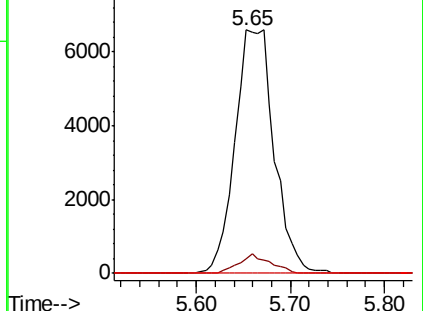
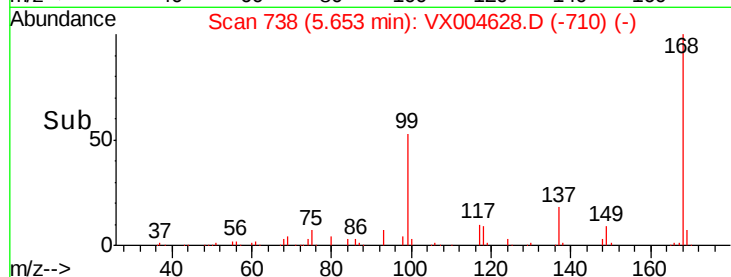
121 0.0 24.9 37.3#



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



#41

Methacrylonitrile

Concen: 0.39 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.10 min

Lab File: VX004628.D

Acq: 17 Sep 2018 19:32

Tgt Ion: 41 Resp: 992

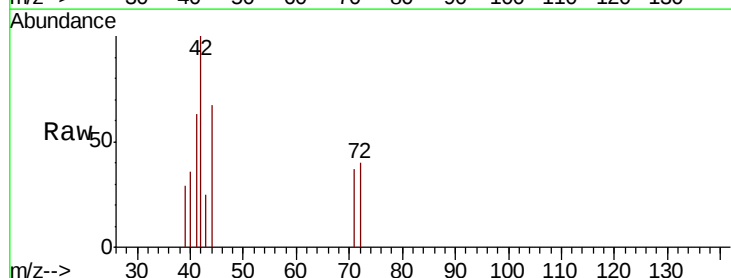
Ion Ratio Lower Upper

41 100

39 55.7 42.4 63.6

67 0.0 59.2 88.8#

52 0.0 23.0 34.4#

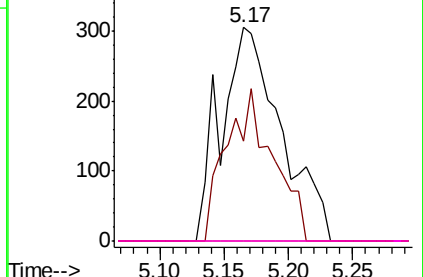
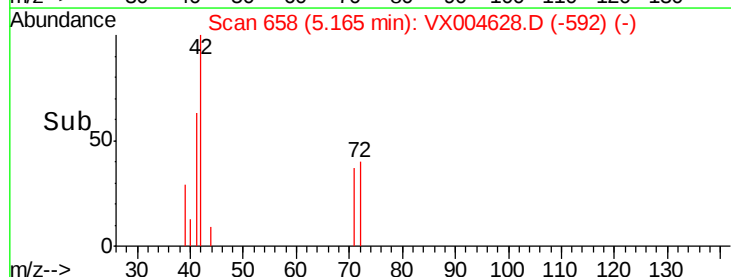


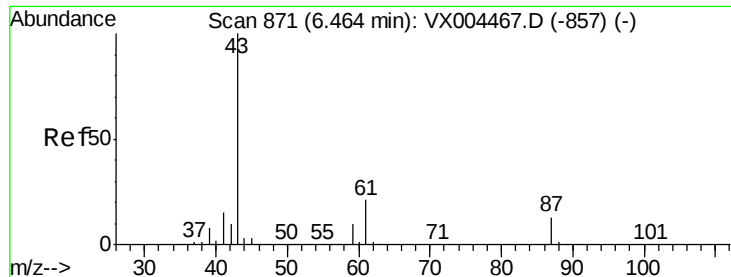
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



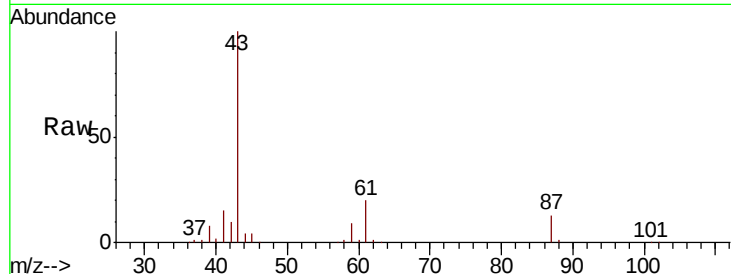


#43

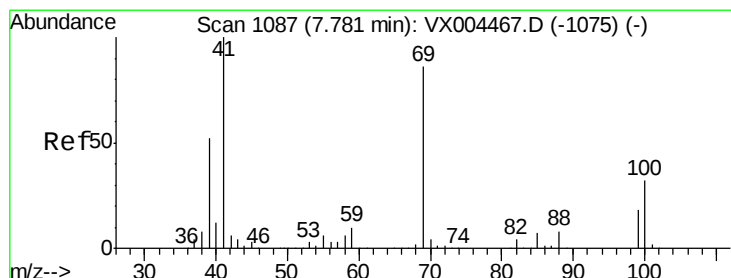
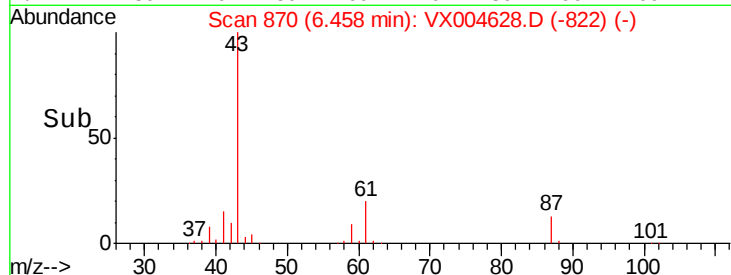
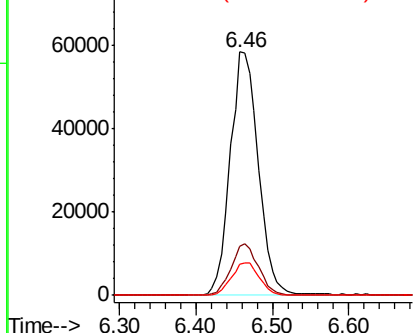
Isopropyl Acetate
 Concen: 24.53 ug/l
 RT: 6.46 min Scan# 870
 Delta R.T. -0.01 min
 Lab File: VX004628.D
 Acq: 17 Sep 2018 19:32

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	43	Resp	148949
Ion Ratio	Lower	Upper	
43	100		
61	20.6	17.0	25.4
87	13.5	11.4	17.2



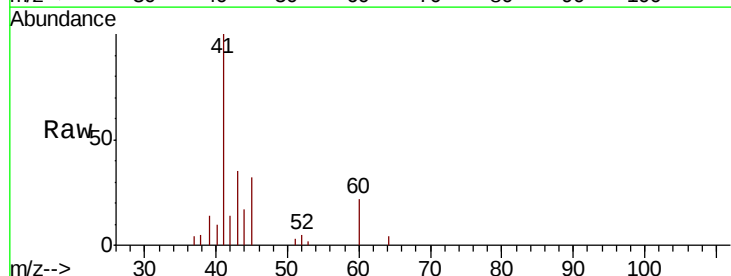
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



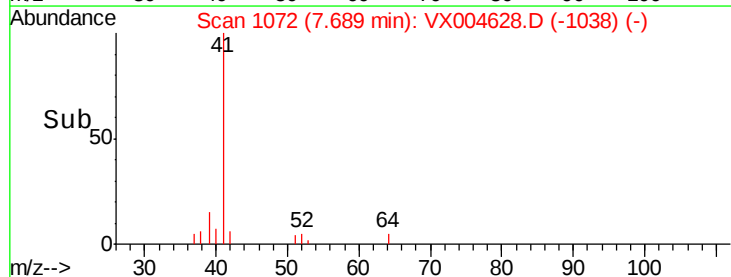
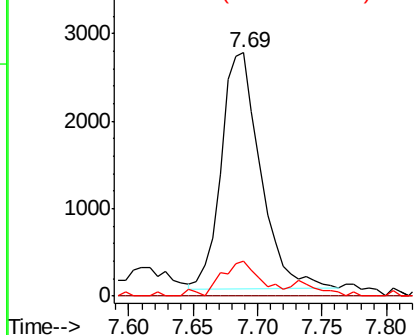
#48

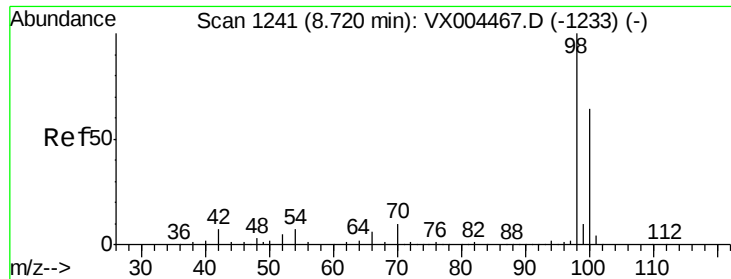
Methyl methacrylate
 Concen: 1.91 ug/l
 RT: 7.69 min Scan# 1072
 Delta R.T. -0.09 min
 Lab File: VX004628.D
 Acq: 17 Sep 2018 19:32

Tgt Ion	41	Resp	5750
Ion Ratio	Lower	Upper	
41	100		
69	0.0	70.2	105.4#
39	15.2	42.7	64.1#



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: 45.26 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.01 min

Lab File: VX004628.D

Acq: 17 Sep 2018 19:32

Instrument :

MSVOA_X

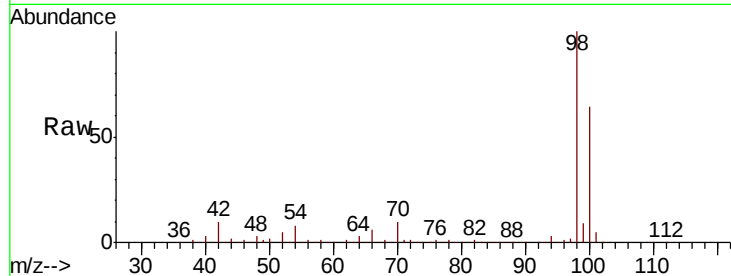
ClientSampleId :

Tot Ion: 98 Resp: 459858

Ion Ratio Lower Upper

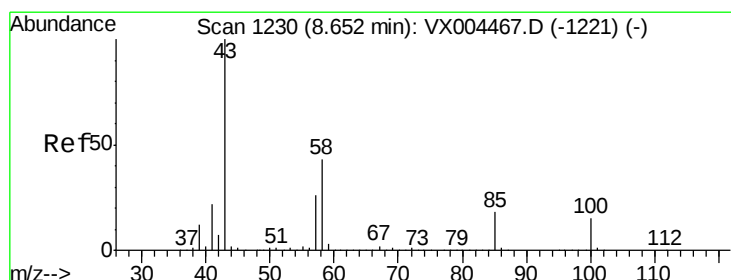
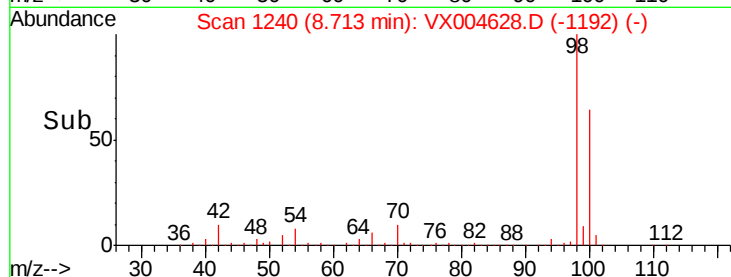
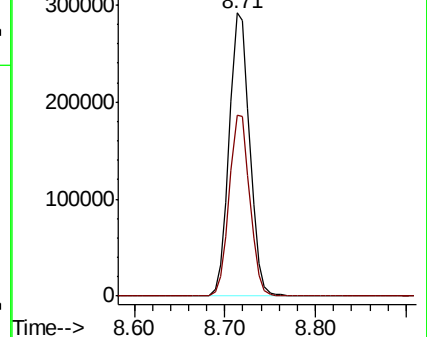
98 100

100 64.2 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.55 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX004628.D

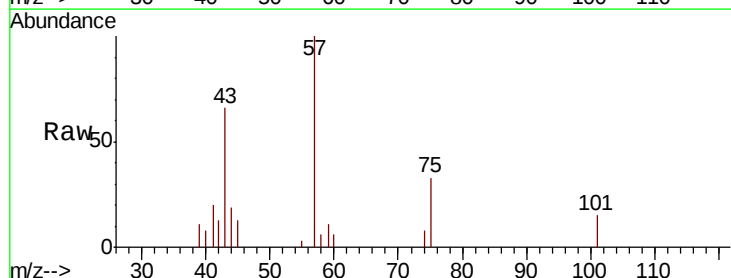
Acq: 17 Sep 2018 19:32

Tgt Ion: 43 Resp: 2336

Ion Ratio Lower Upper

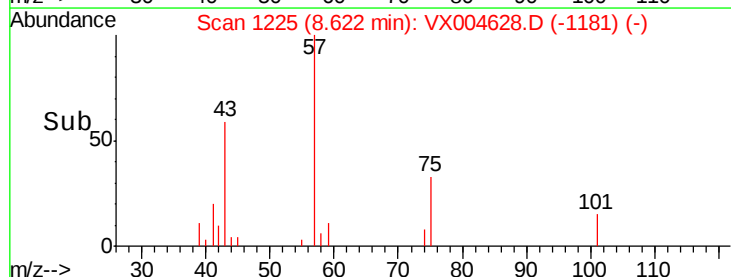
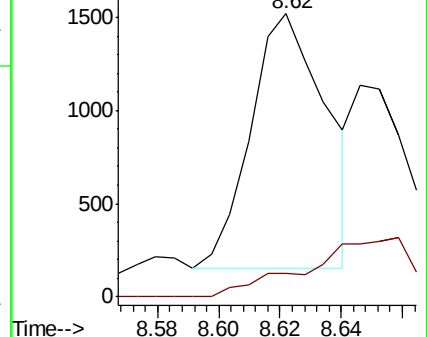
43 100

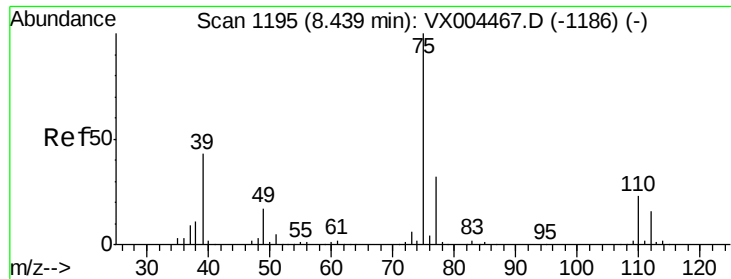
58 0.0 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#54

cis-1,3-Dichloropropene

Concen: 0.30 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.18 min

Lab File: VX004628.D

Acq: 17 Sep 2018 19:32

Instrument :

MSVOA_X

ClientSampleId :

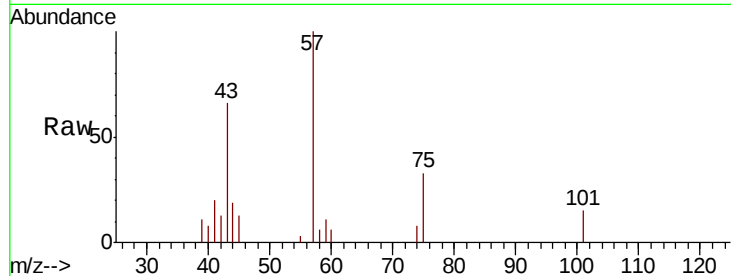
Tot Ion: 75 Resp: 1233

Ion Ratio Lower Upper

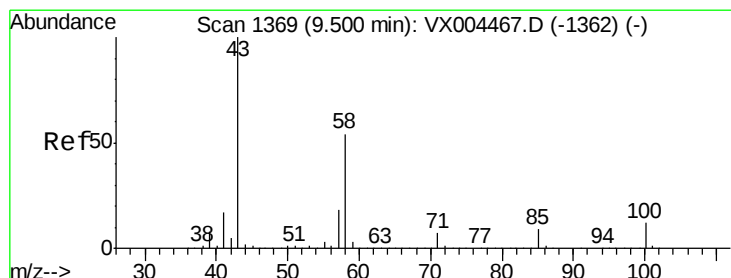
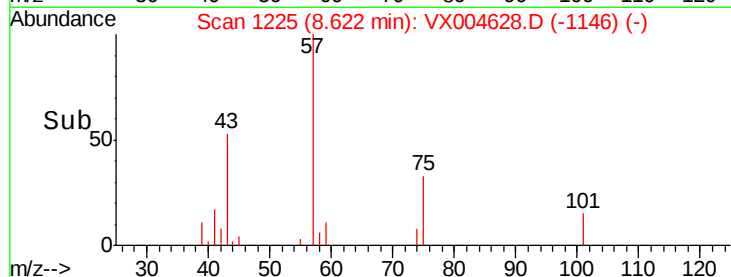
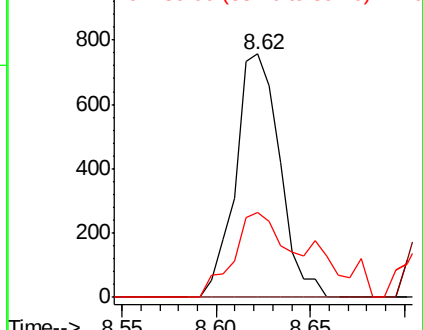
75 100

77 0.0 26.2 39.2#

39 34.7 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 76.90 (76.60 to 77.60): VX0
Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 3.04 ug/l

RT: 9.55 min Scan# 1377

Delta R.T. 0.05 min

Lab File: VX004628.D

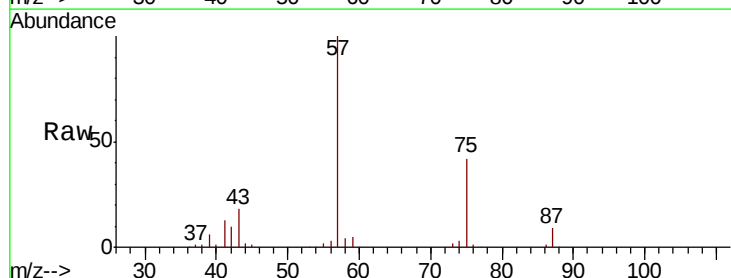
Acq: 17 Sep 2018 19:32

Tgt Ion: 43 Resp: 9994

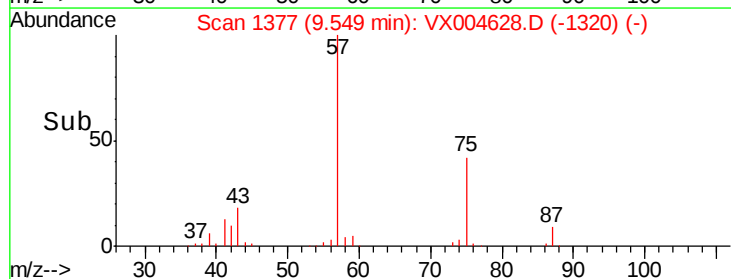
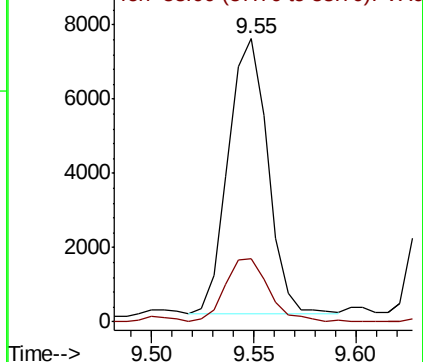
Ion Ratio Lower Upper

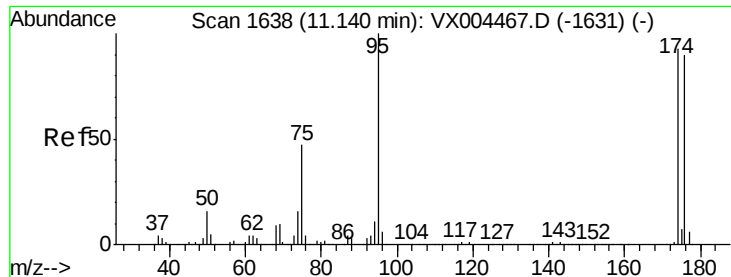
43 100

58 25.4 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: 44.70 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004628.D

Acq: 17 Sep 2018 19:32

Instrument :

MSVOA_X

ClientSampleId :

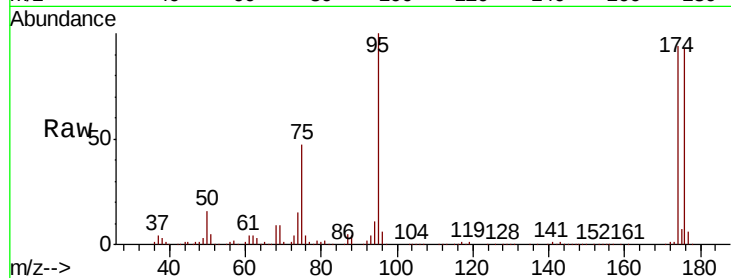
Tot Ion: 95 Resp: 162139

Ion Ratio Lower Upper

95 100

174 94.2 0.0 185.2

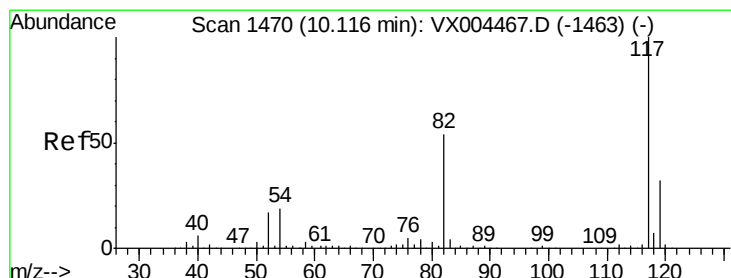
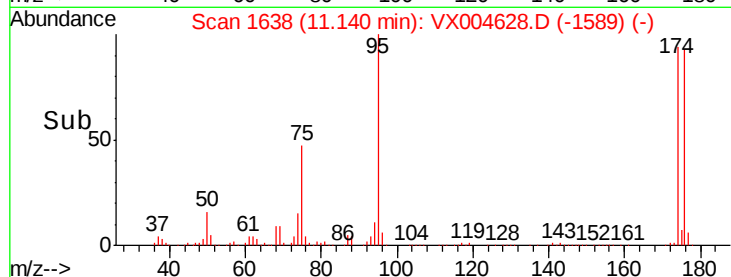
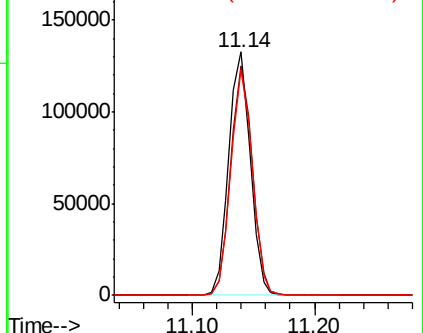
176 91.7 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX004467.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX004467.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX004467.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX004628.D

Acq: 17 Sep 2018 19:32

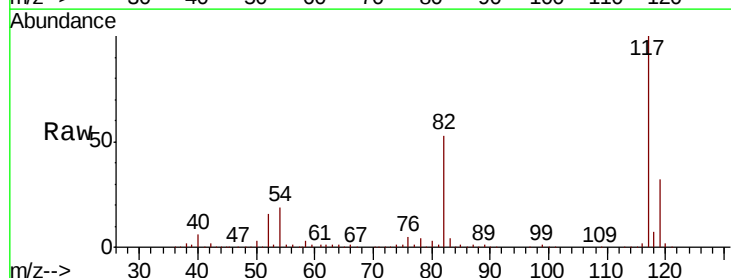
Tgt Ion: 117 Resp: 317445

Ion Ratio Lower Upper

117 100

82 53.0 47.8 71.6

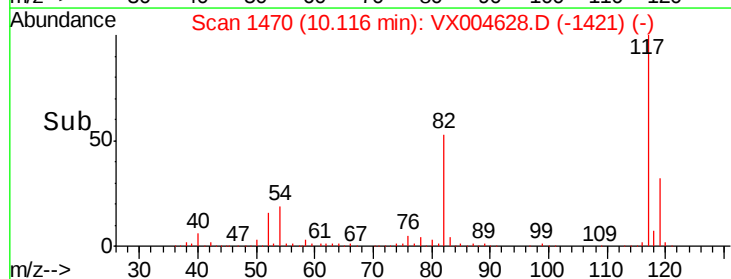
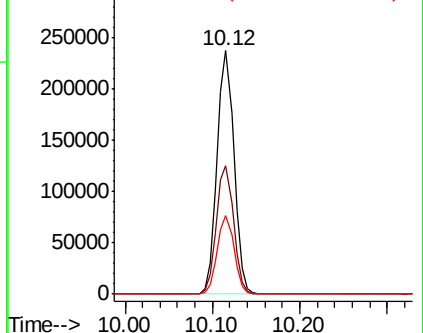
119 32.3 29.3 43.9

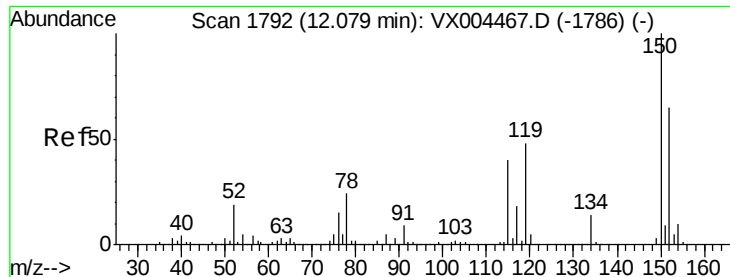


Abundance Ion 116.90 (116.60 to 117.60): VX004467.D (-1463) (-)

Ion 82.00 (81.70 to 82.70): VX004467.D (-1463) (-)

Ion 118.90 (118.60 to 119.60): VX004467.D (-1463) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004628.D

Acq: 17 Sep 2018 19:32

Instrument :

MSVOA_X

ClientSampled :

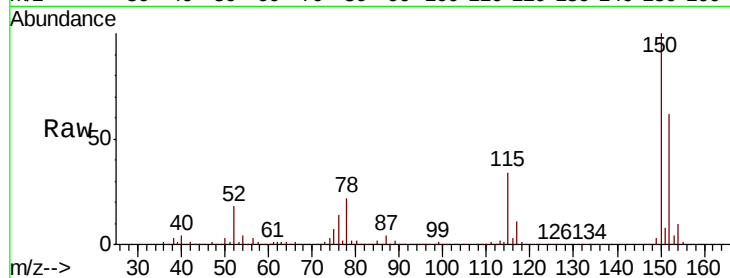
Tot Ion:152 Resp: 170810

Ion Ratio Lower Upper

152 100

115 54.1 39.0 117.0

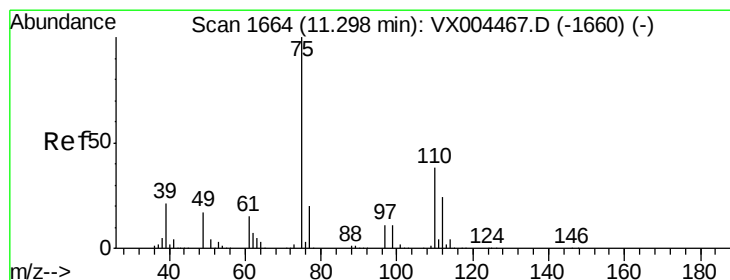
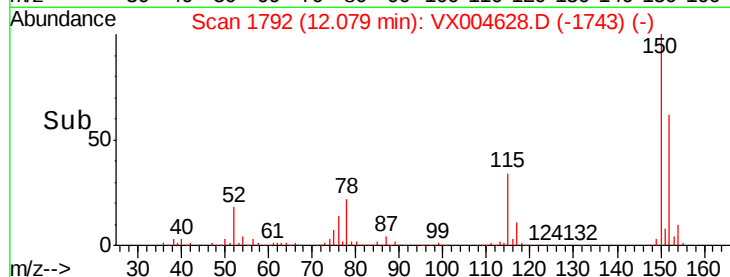
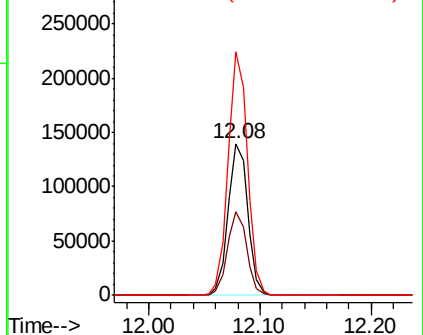
150 157.5 0.0 351.0



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: 22.15 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004628.D

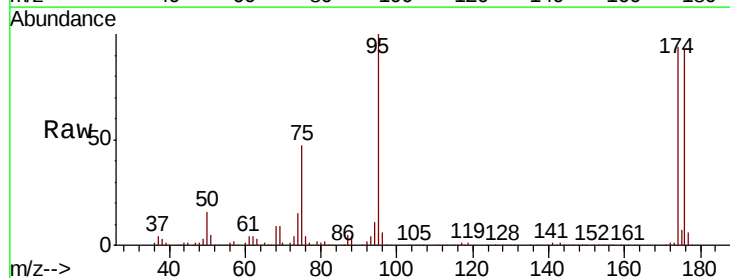
Acq: 17 Sep 2018 19:32

Tgt Ion: 75 Resp: 76103

Ion Ratio Lower Upper

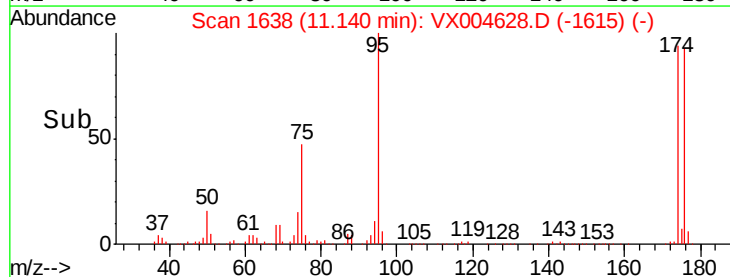
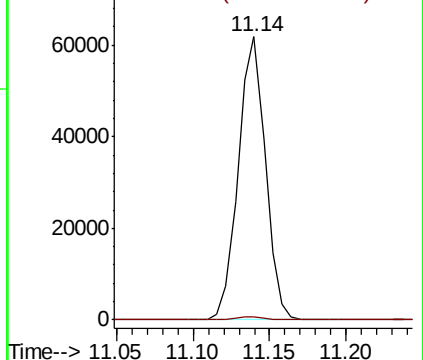
75 100

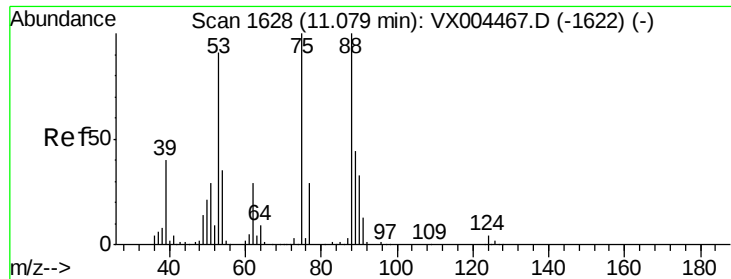
77 1.2 20.2 60.6#



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: 70.59 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004628.D

Acq: 17 Sep 2018 19:32

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 76103

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#

