

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101918\
 Data File : VX005452.D
 Acq On : 19 Oct 2018 12:33
 Operator : JC/MD
 Sample : J5195-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 JC-02-101818-B

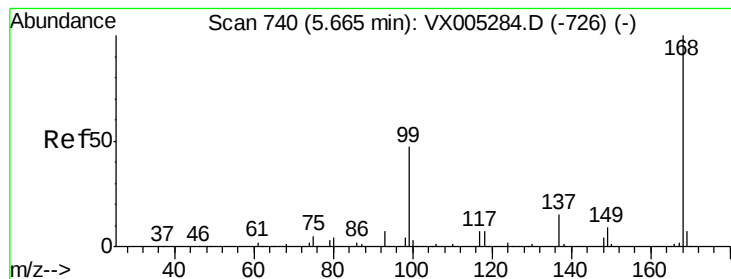
Quant Time: Oct 20 04:18:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	298174	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	436111	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	366625	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	174805	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	160894	48.62	ug/l	0.00
Spiked Amount			Recovery	=	97.24%	
35) Dibromofluoromethane	5.50	113	133739	46.30	ug/l	0.00
Spiked Amount			Recovery	=	92.60%	
50) Toluene-d8	8.71	98	480047	48.41	ug/l	0.00
Spiked Amount			Recovery	=	96.82%	
62) 4-Bromofluorobenzene	11.14	95	158887	42.65	ug/l	0.00
Spiked Amount			Recovery	=	85.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	386	0.782	ug/l	84
6) Chloroethane	1.70	64	24	0.346	ug/l #	44
10) Methyl Iodide	2.52	142	470	2.643	ug/l #	69
11) Tert butyl alcohol	3.06	59	731	0.783	ug/l #	45
13) Acrolein	2.30	56	113	Below Cal	#	16
16) Acetone	2.45	43	14794	7.732	ug/l	97
17) Carbon Disulfide	2.57	76	15309	1.935	ug/l	97
18) Methyl Acetate	2.78	43	5993	1.101	ug/l	99
25) 2-Butanone	4.70	43	5200	1.857	ug/l	95
29) Tetrahydrofuran	5.17	42	1768	0.990	ug/l #	81
31) Cyclohexane	5.67	56	5004	1.100	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	17952	4.250	ug/l #	50
38) Carbon Tetrachloride	5.66	117	25626	6.038	ug/l #	15
43) Isopropyl Acetate	6.46	43	180278	24.915	ug/l	96
44) Trichloroethene	7.21	130	124	Below Cal		93
48) Methyl methacrylate	7.68	41	6622	1.765	ug/l #	21
51) 4-Methyl-2-Pentanone	8.62	43	2266	0.452	ug/l #	34
76) 1,2,3-Trichloropropane	11.14	75	78123	23.040	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	78123	70.007	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX005452.D

Acq: 19 Oct 2018 12:33

Instrument :

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ClientSampleId :

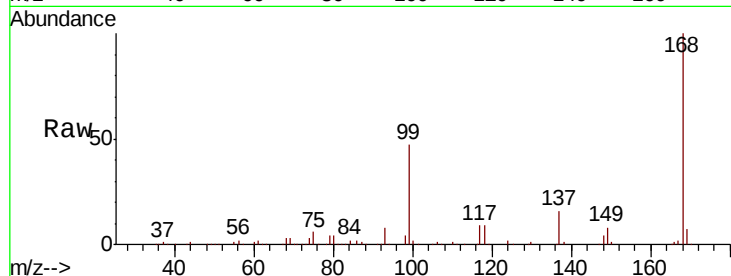
JC-02-101818-B

Tot Ion:168 Resp: 298174

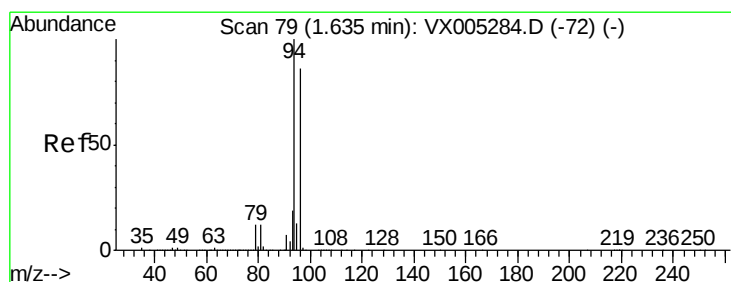
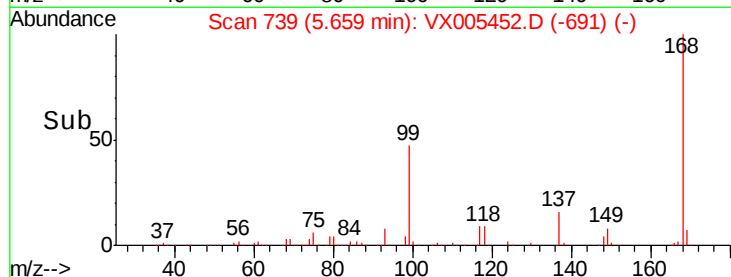
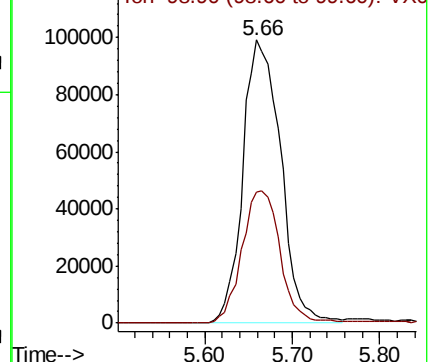
Ion Ratio Lower Upper

168 100

99 46.5 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): VX005452.D (-691) (-)



#5

Bromomethane

Concen: 0.782 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005452.D

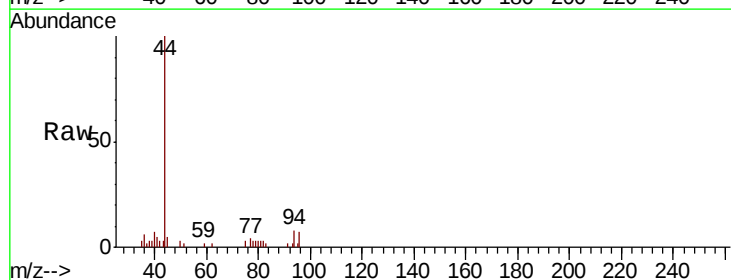
Acq: 19 Oct 2018 12:33

Tgt Ion: 94 Resp: 386

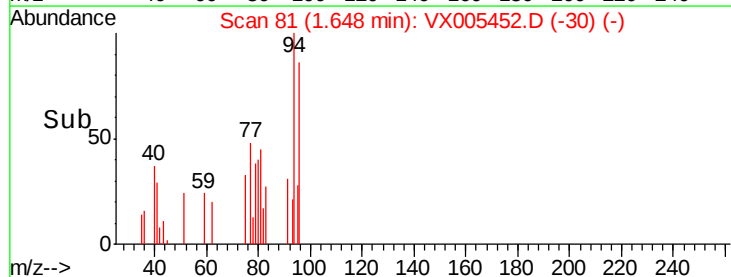
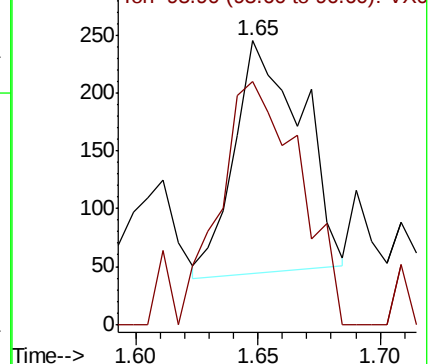
Ion Ratio Lower Upper

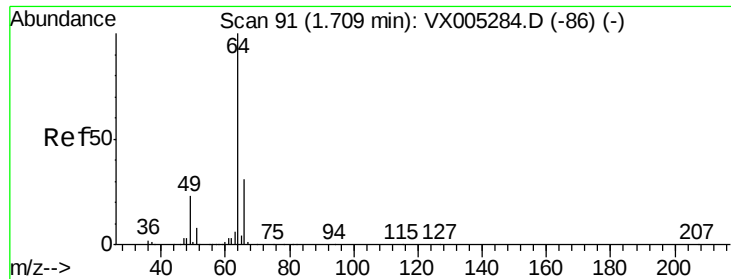
94 100

96 108.2 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX005452.D (-30) (-)





#6

Chloroethane

Concen: 0.346 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX005452.D

Acq: 19 Oct 2018 12:33

Instrument :

MSVOA_X

ClientSampleId :

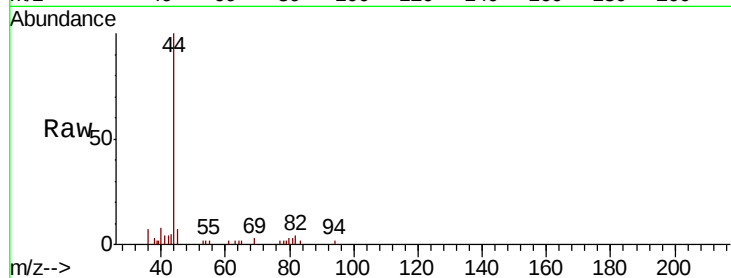
JC-02-101818-B

Tot Ion: 64 Resp: 24

Ion Ratio Lower Upper

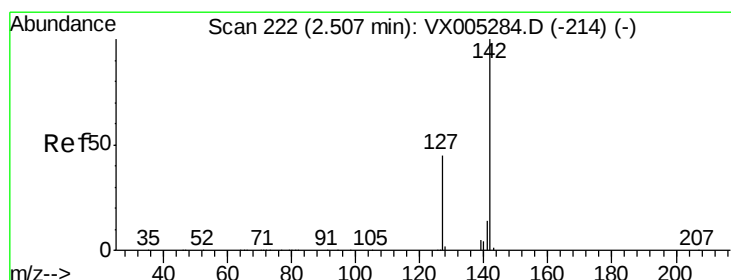
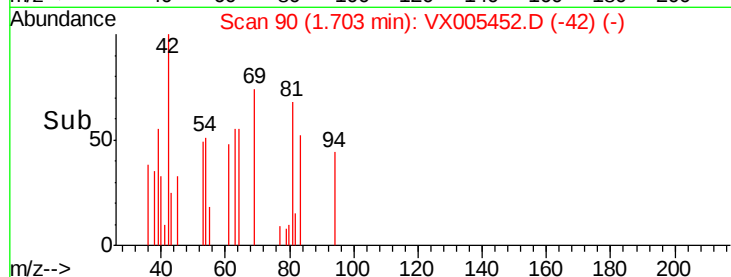
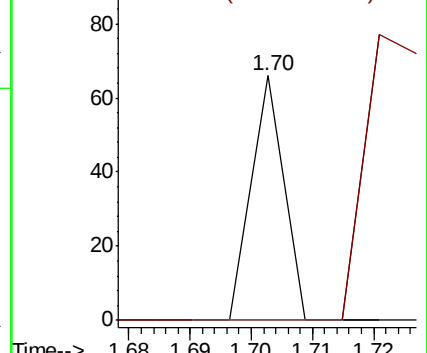
64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 2.643 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005452.D

Acq: 19 Oct 2018 12:33

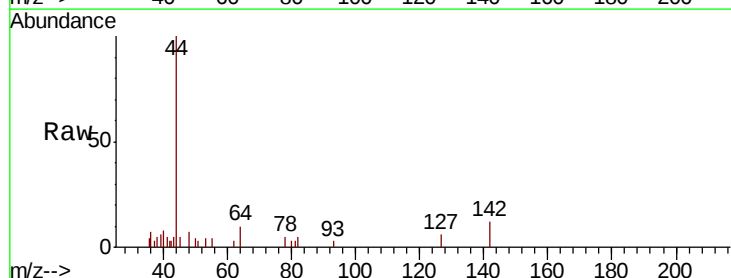
Tgt Ion: 142 Resp: 470

Ion Ratio Lower Upper

142 100

127 60.6 33.8 50.6#

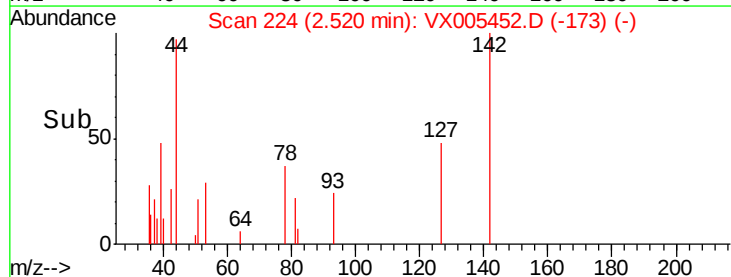
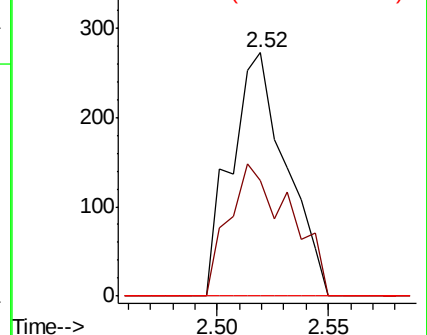
141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

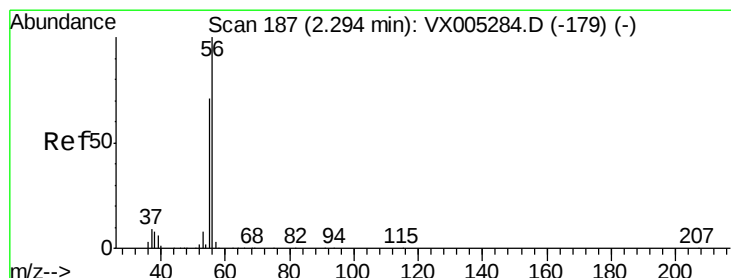
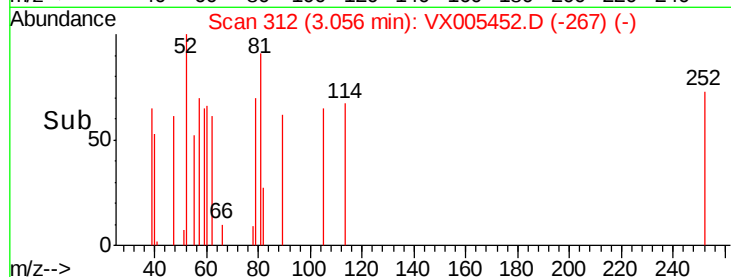
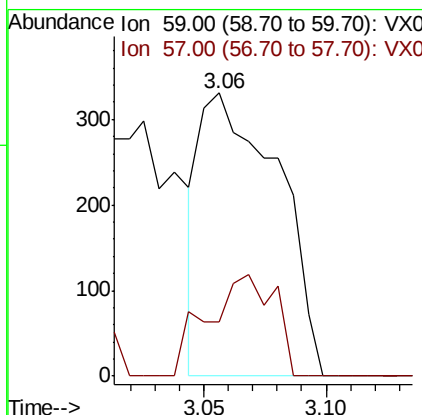
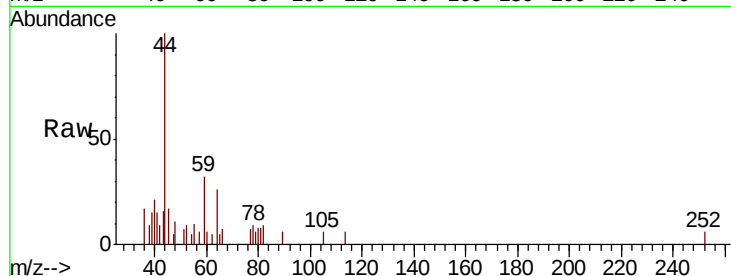




#11
Tert butvl alcohol
Concen: 0.783 ug/l
RT: 3.06 min Scan# 312
Delta R.T. -0.02 min
Lab File: VX005452.D
Acq: 19 Oct 2018 12:33

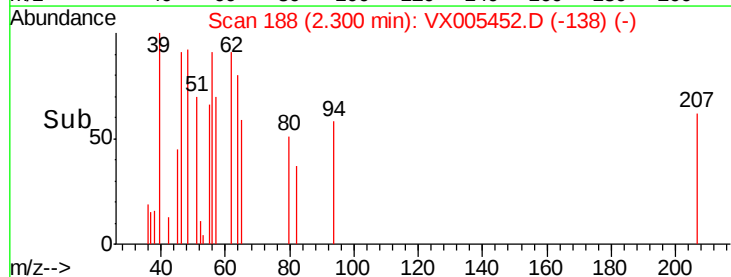
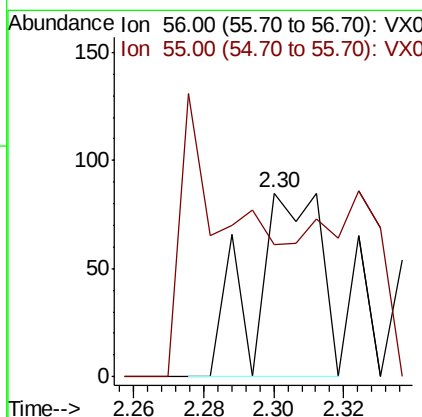
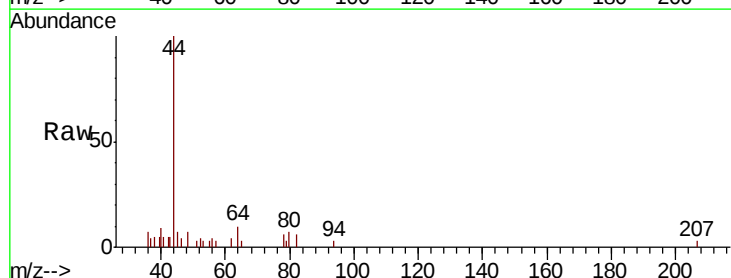
Instrument :
MSVOA_X
ClientSampleId :
JC-02-101818-B

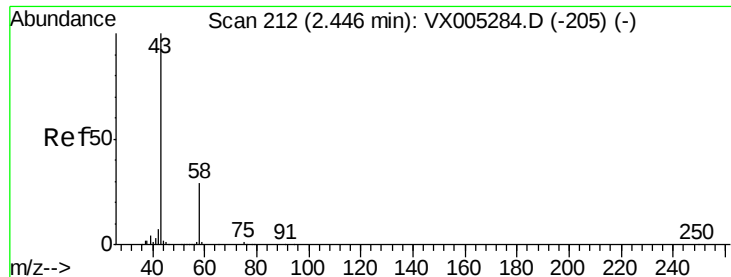
Tot Ion: 59 Resp: 731
Ion Ratio Lower Upper
59 100
57 30.9 8.2 12.4#



#13
Acrolein
Concen: Below Cal
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX005452.D
Acq: 19 Oct 2018 12:33

Tgt Ion: 56 Resp: 113
Ion Ratio Lower Upper
56 100
55 0.0 54.7 82.1#





#16

Acetone

Concen: 7.732 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005452.D

Acq: 19 Oct 2018 12:33

Instrument :

MSVOA_X

ClientSampleId :

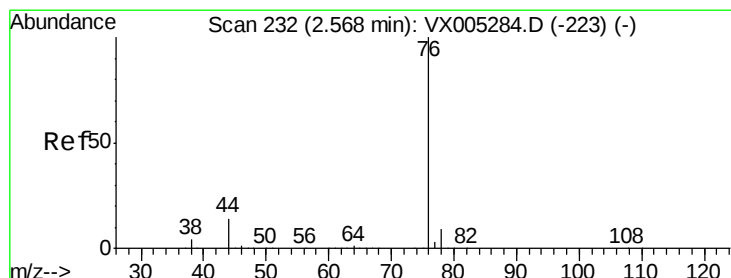
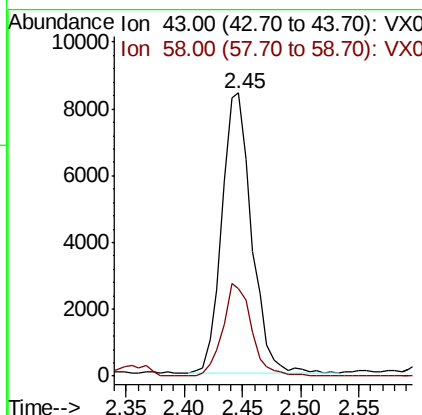
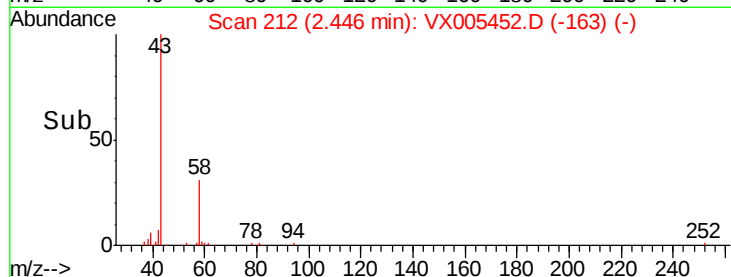
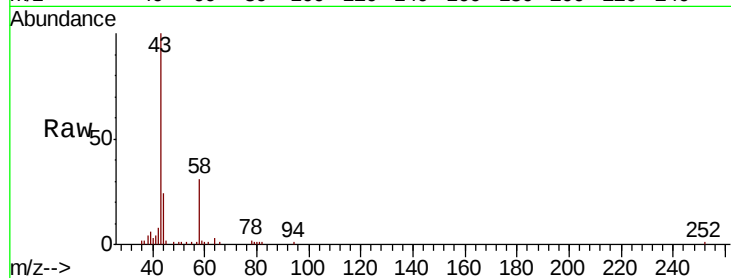
JC-02-101818-B

Tot Ion: 43 Resp: 14794

Ion Ratio Lower Upper

43 100

58 31.3 26.2 39.4



#17

Carbon Disulfide

Concen: 1.935 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX005452.D

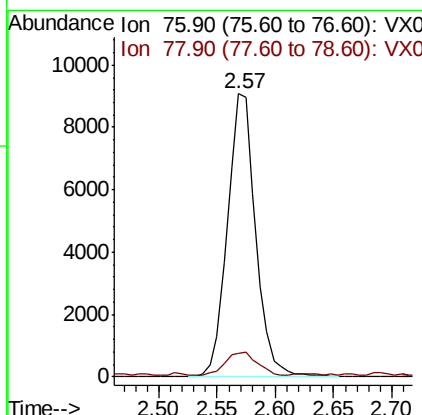
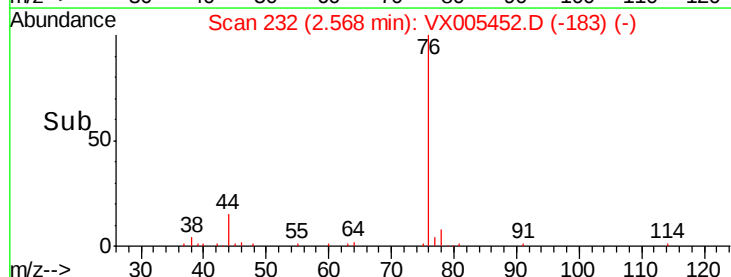
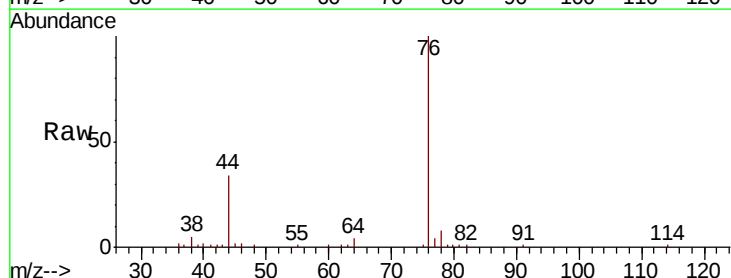
Acq: 19 Oct 2018 12:33

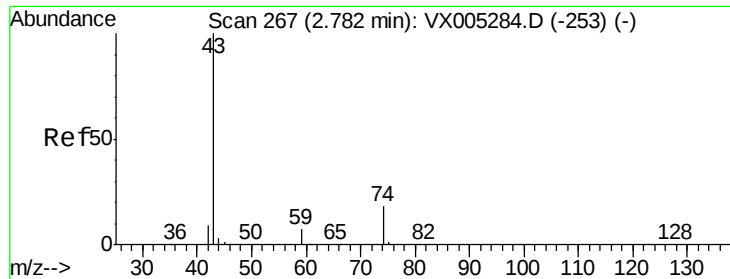
Tgt Ion: 76 Resp: 15309

Ion Ratio Lower Upper

76 100

78 7.8 7.0 10.6

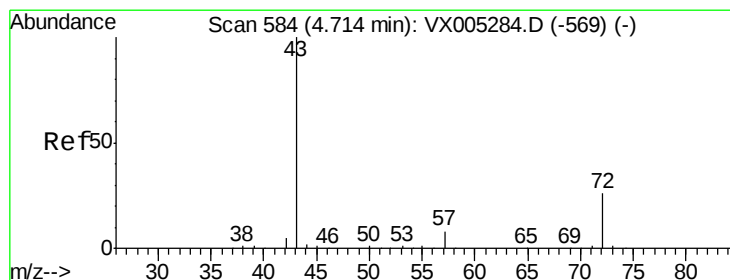
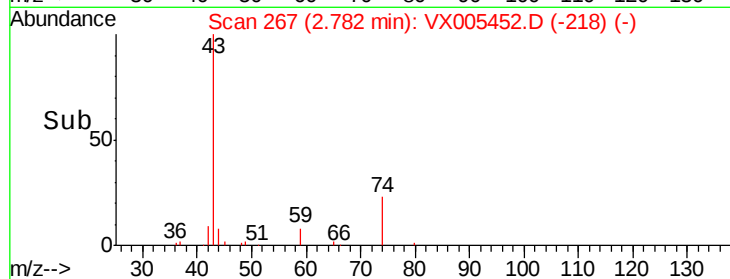
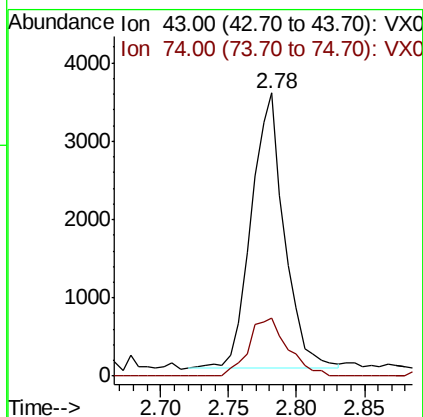
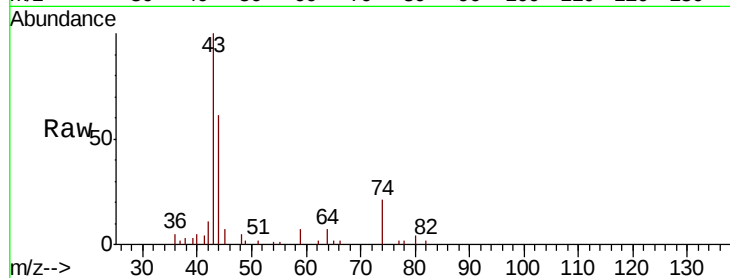




#18
Methyl Acetate
Concen: 1.101 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX005452.D
Acq: 19 Oct 2018 12:33

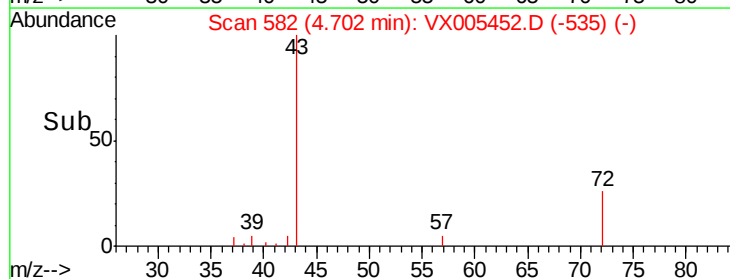
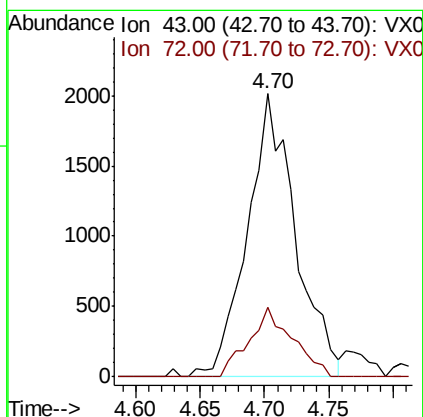
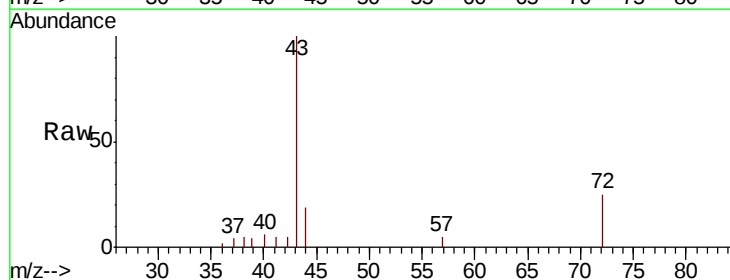
Instrument :
MSVOA_X
ClientSampleId :
JC-02-101818-B

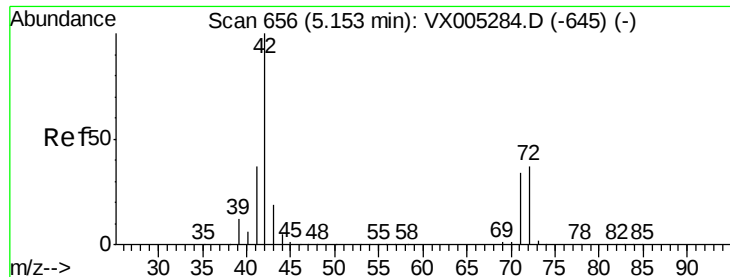
Tot Ion: 43 Resp: 5993
Ion Ratio Lower Upper
43 100
74 25.0 19.4 29.2



#25
2-Butanone
Concen: 1.857 ug/l
RT: 4.70 min Scan# 582
Delta R.T. -0.01 min
Lab File: VX005452.D
Acq: 19 Oct 2018 12:33

Tgt Ion: 43 Resp: 5200
Ion Ratio Lower Upper
43 100
72 24.8 22.0 33.0





#29

Tetrahydrofuran

Concen: 0.990 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX005452.D

Acq: 19 Oct 2018 12:33

Instrument :

MSVOA_X

ClientSampleId :

JC-02-101818-B

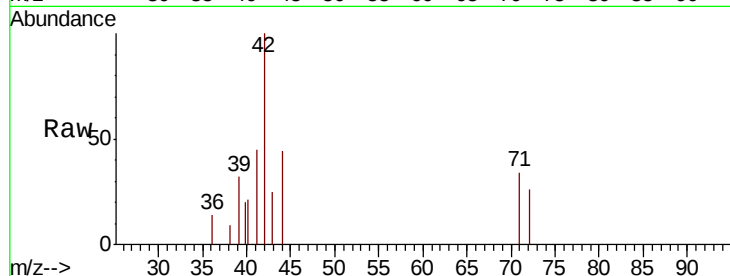
Tot Ion: 42 Resp: 1768

Ion Ratio Lower Upper

42 100

72 23.5 37.4 56.0#

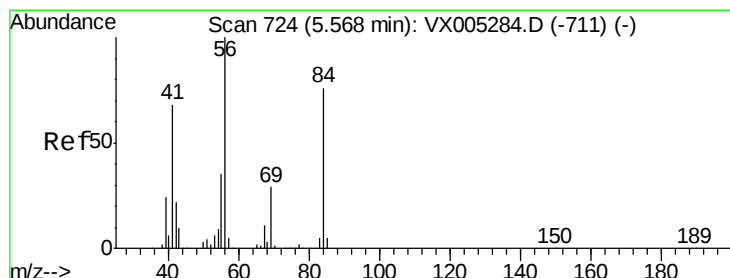
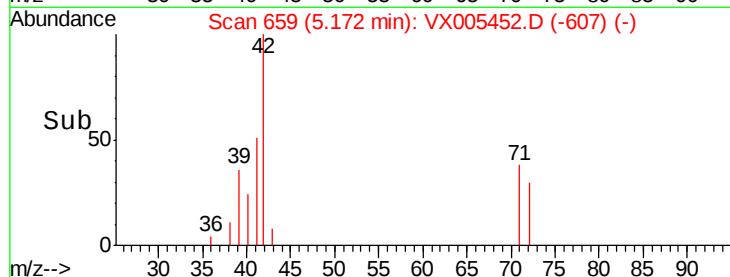
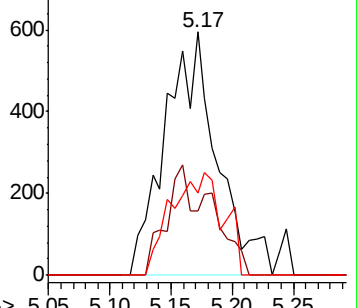
71 42.0 34.5 51.7



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: 1.100 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.10 min

Lab File: VX005452.D

Acq: 19 Oct 2018 12:33

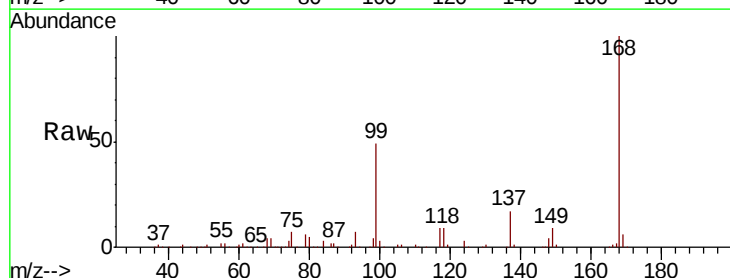
Tgt Ion: 56 Resp: 5004

Ion Ratio Lower Upper

56 100

69 243.5 25.4 38.2#

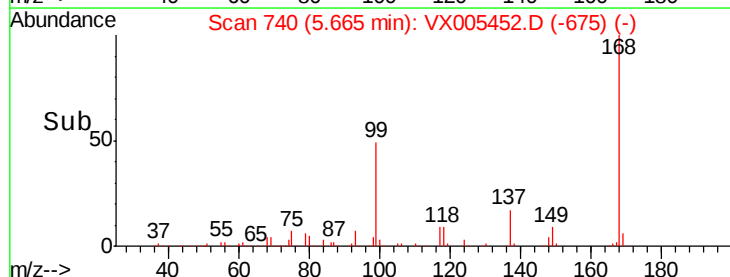
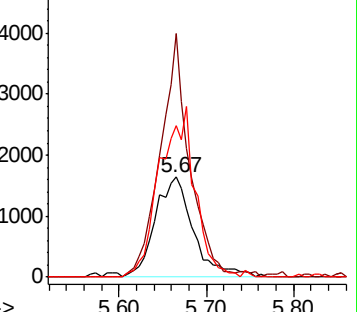
84 151.2 71.4 107.2#

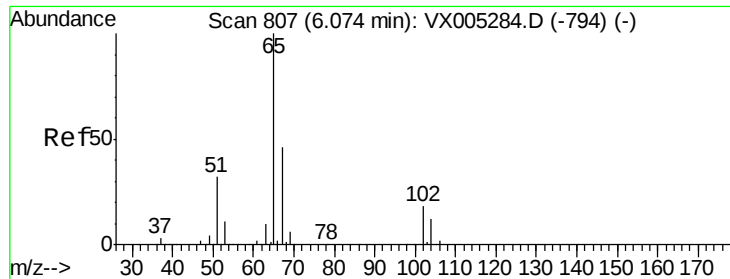


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 48.619 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.01 min

Lab File: VX005452.D

Acq: 19 Oct 2018 12:33

Instrument :

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ClientSampleId :

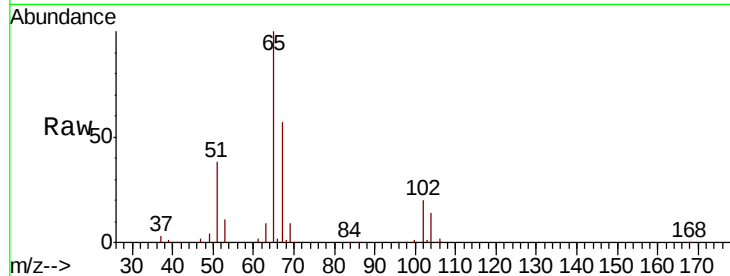
JC-02-101818-B

Tot Ion: 65 Resp: 160894

Ion Ratio Lower Upper

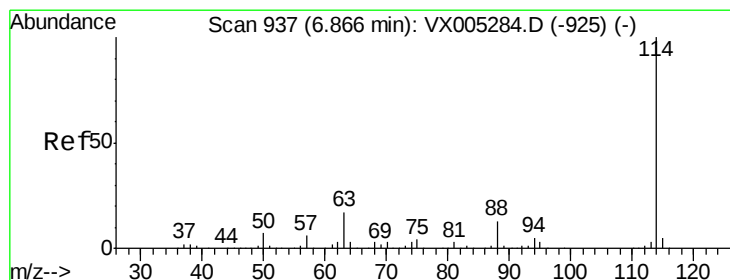
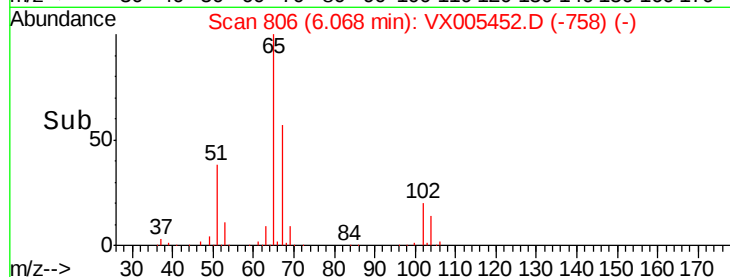
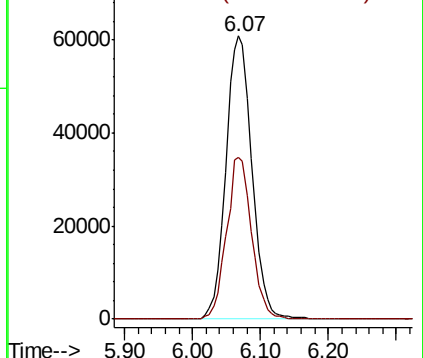
65 100

67 55.3 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.01 min

Lab File: VX005452.D

Acq: 19 Oct 2018 12:33

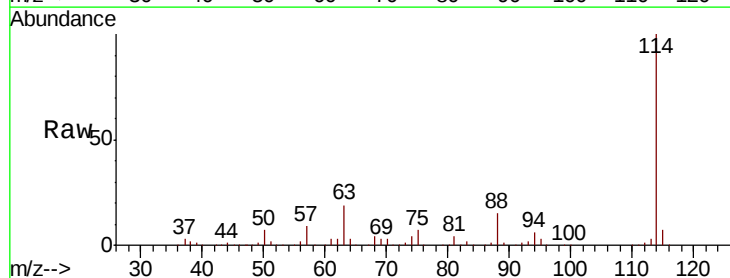
Tgt Ion: 114 Resp: 436111

Ion Ratio Lower Upper

114 100

63 18.8 0.0 39.0

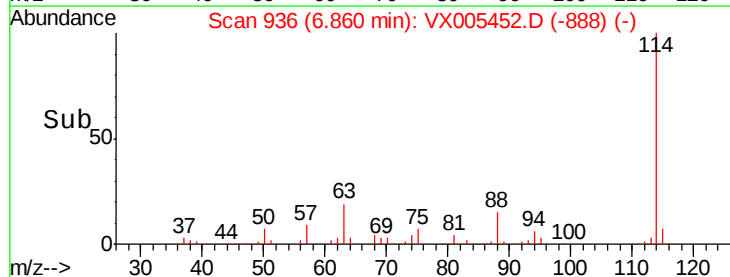
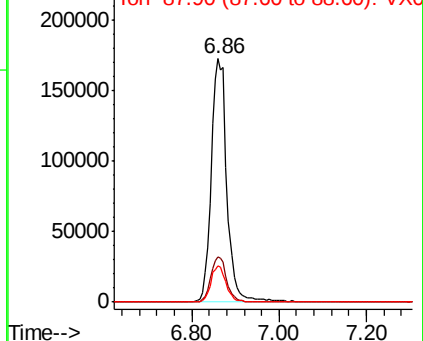
88 14.8 0.0 30.4

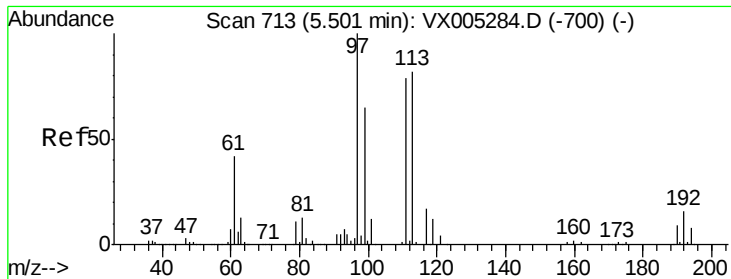


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 46.301 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX005452.D

Acq: 19 Oct 2018 12:33

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MSVOA_X

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JC-02-101818-B

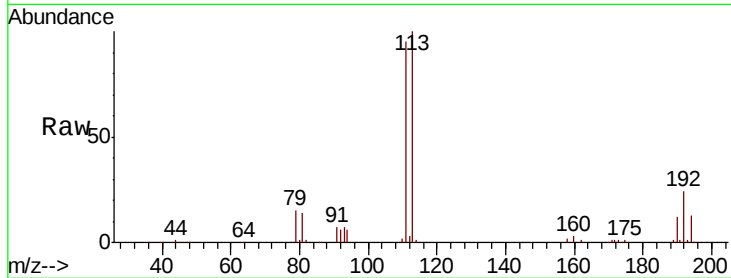
Tot Ion:113 Resp: 133739

Ion Ratio Lower Upper

113 100

111 104.0 82.4 123.6

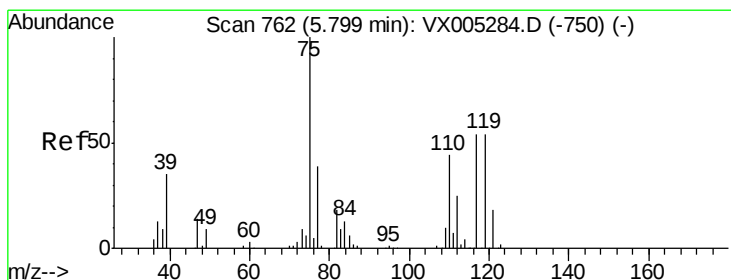
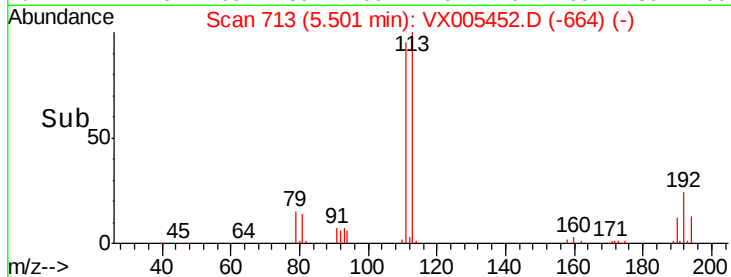
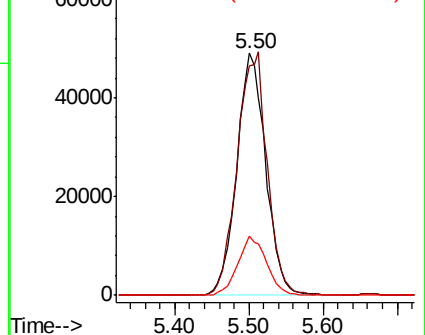
192 24.3 19.4 29.2



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: 4.250 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005452.D

Acq: 19 Oct 2018 12:33

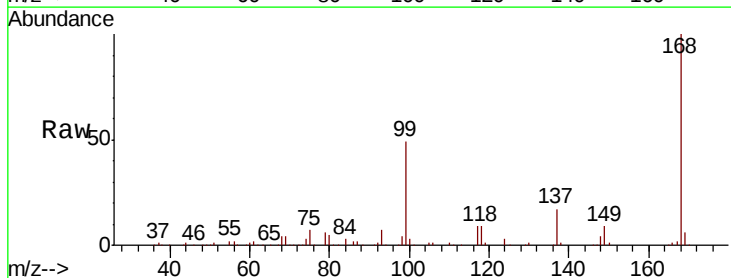
Tgt Ion: 75 Resp: 17952

Ion Ratio Lower Upper

75 100

110 9.5 18.0 54.0#

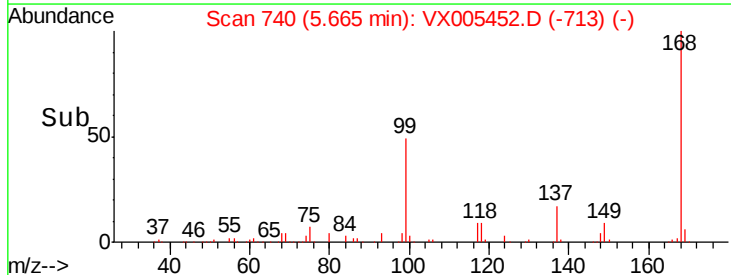
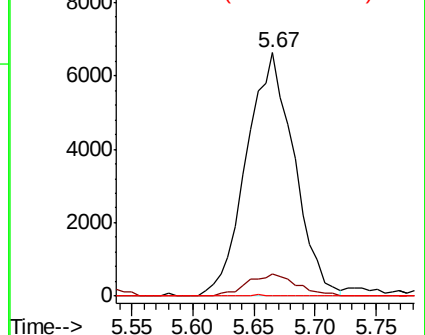
77 0.1 24.6 36.8#

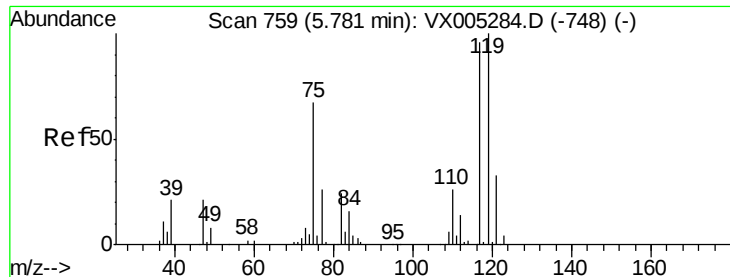


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.038 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX005452.D

Acq: 19 Oct 2018 12:33

Instrument :

MSVOA_X

ClientSampleId :

JC-02-101818-B

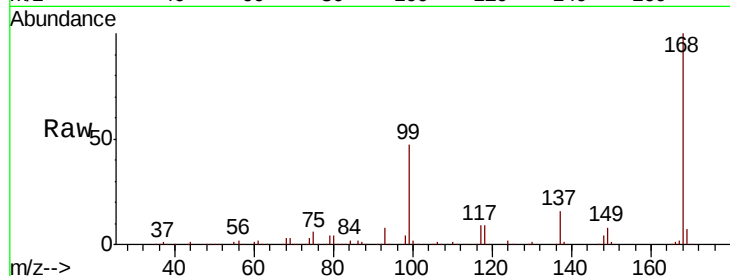
Tot Ion:117 Resp: 25626

Ion Ratio Lower Upper

117 100

119 5.4 78.8 118.2#

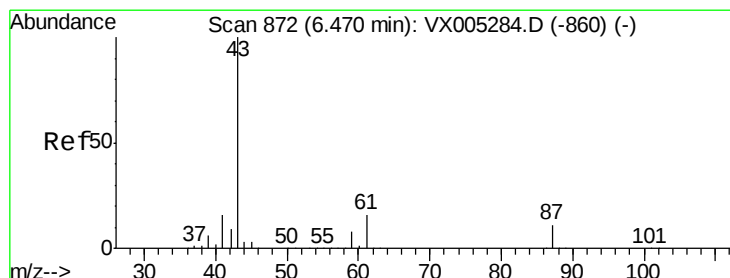
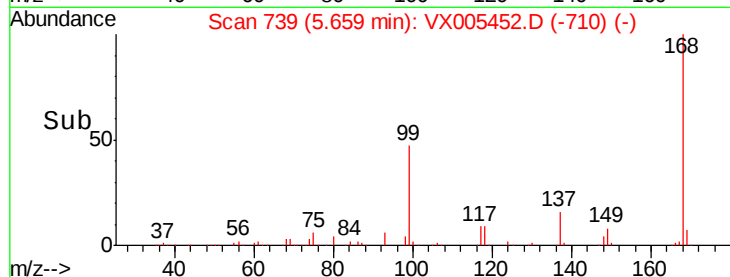
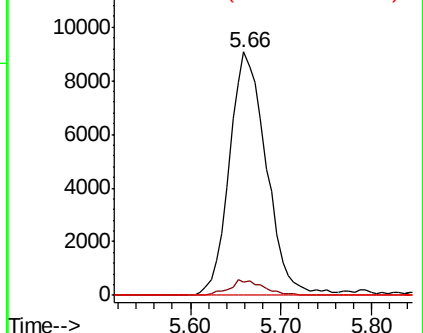
121 0.0 24.9 37.3#



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



#43

Isopropyl Acetate

Concen: 24.915 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.01 min

Lab File: VX005452.D

Acq: 19 Oct 2018 12:33

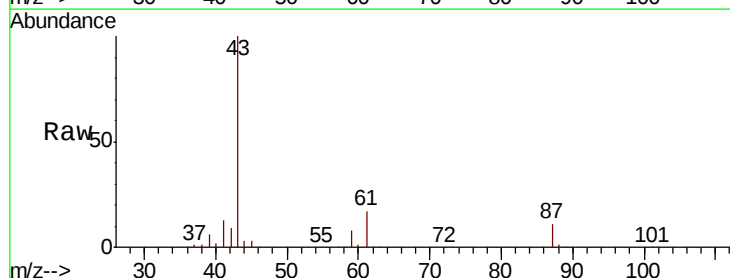
Tgt Ion: 43 Resp: 180278

Ion Ratio Lower Upper

43 100

61 19.2 17.0 25.4

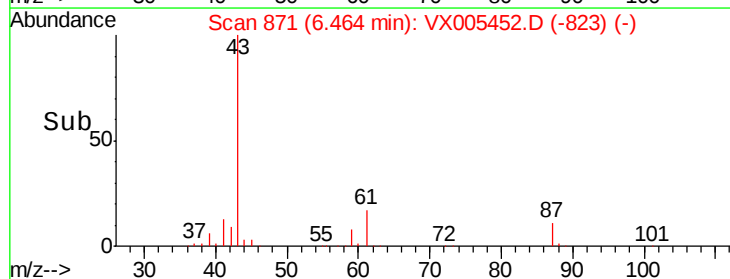
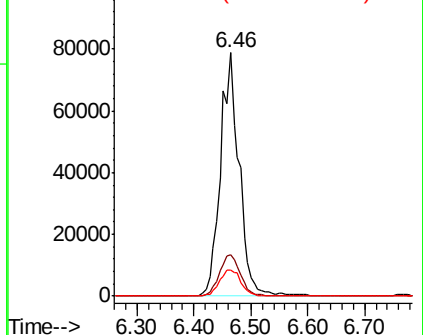
87 12.6 11.4 17.2

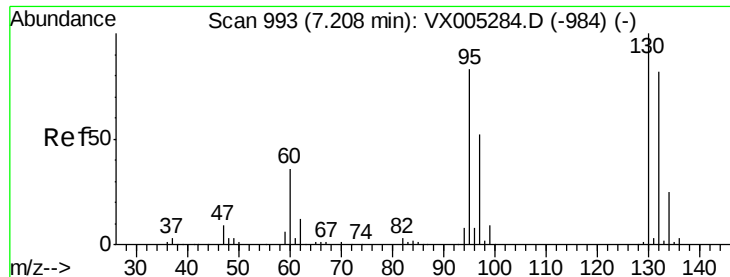


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#44

Trichloroethene

Concen: Below Cal

RT: 7.21 min Scan# 994

Delta R.T. 0.01 min

Lab File: VX005452.D

Acq: 19 Oct 2018 12:33

Instrument :

MSVOA_X

ClientSampleId :

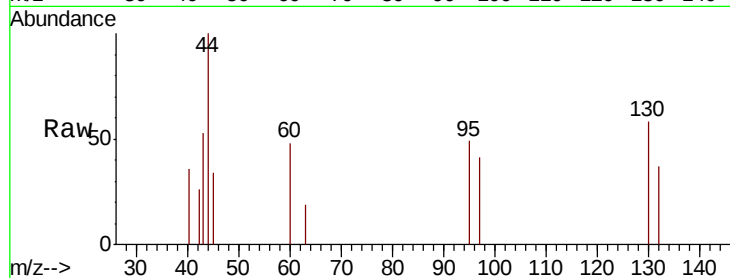
JC-02-101818-B

Tot Ion:130 Resp: 124

Ion Ratio Lower Upper

130 100

95 84.1 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

150

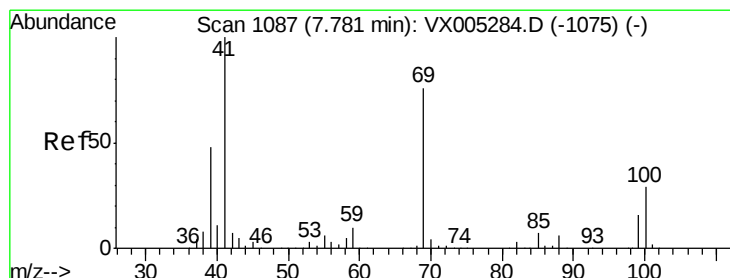
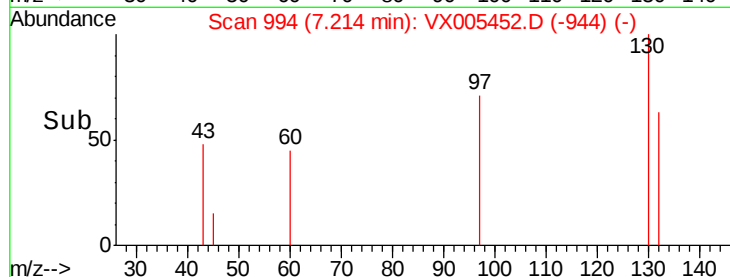
100

50

0

7.18 7.20 7.22 7.24

Time-->



#48

Methyl methacrylate

Concen: 1.765 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.10 min

Lab File: VX005452.D

Acq: 19 Oct 2018 12:33

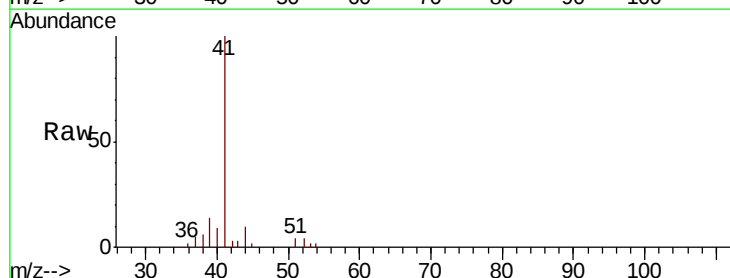
Tgt Ion: 41 Resp: 6622

Ion Ratio Lower Upper

41 100

69 0.0 70.2 105.4#

39 15.4 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

4000

3000

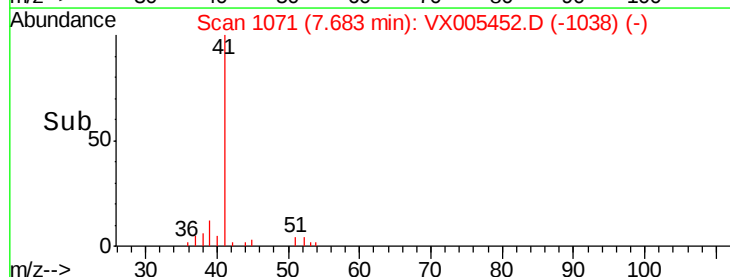
2000

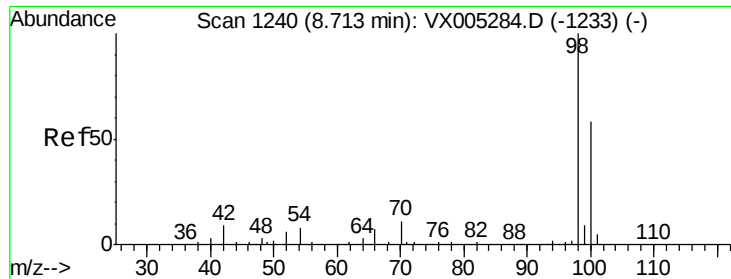
1000

0

7.60 7.65 7.70 7.75 7.80

Time-->

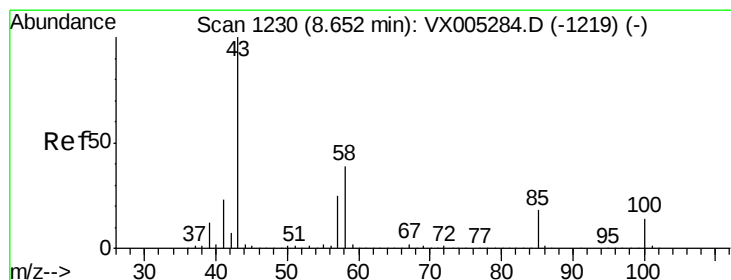
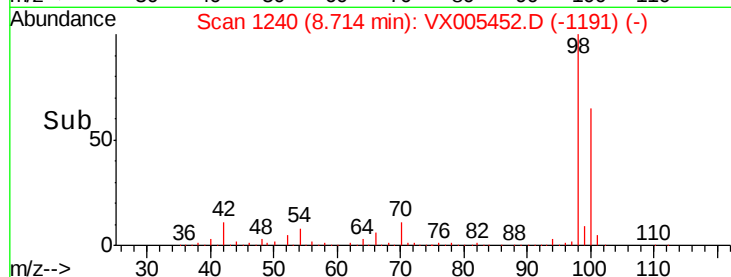
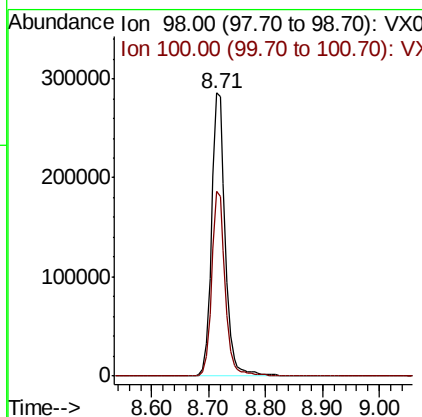
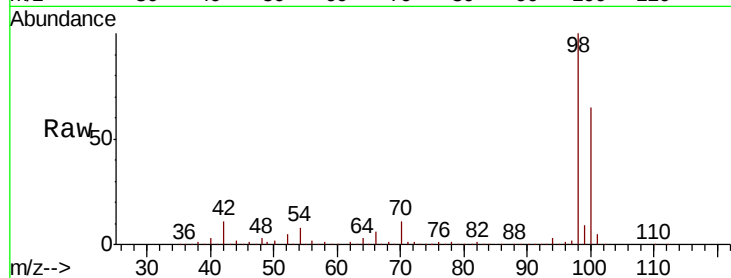




#50
Toluene-d8
Concen: 48.410 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX005452.D
Acq: 19 Oct 2018 12:33

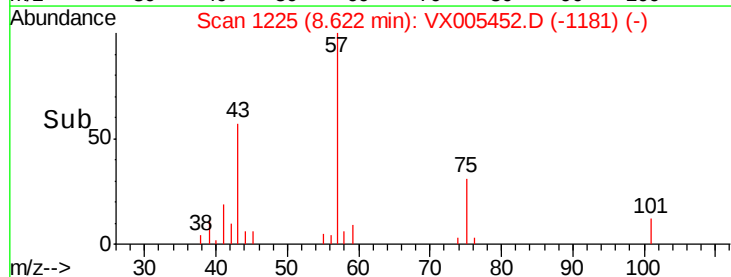
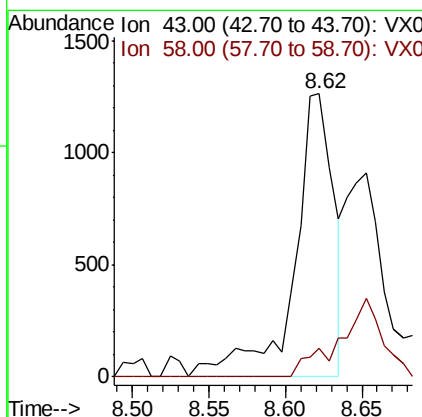
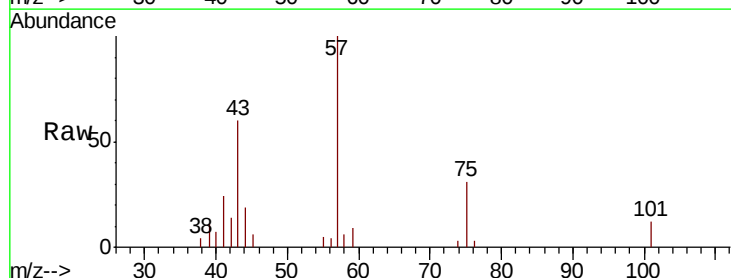
Instrument :
MSVOA_X
ClientSampleId :
JC-02-101818-B

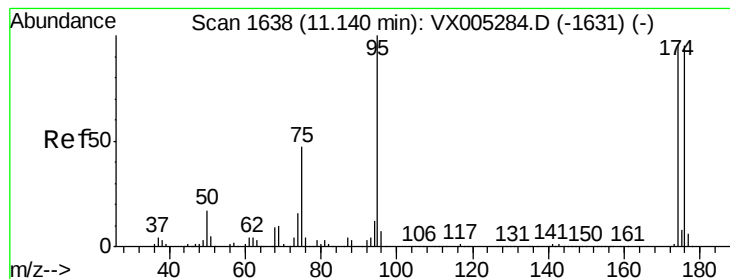
Tot Ion: 98 Resp: 480047
Ion Ratio Lower Upper
98 100
100 64.1 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 0.452 ug/l
RT: 8.62 min Scan# 1225
Delta R.T. -0.03 min
Lab File: VX005452.D
Acq: 19 Oct 2018 12:33

Tgt Ion: 43 Resp: 2266
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#





#62

4-Bromofluorobenzene

Concen: 42.652 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005452.D

Acq: 19 Oct 2018 12:33

Instrument :

MSVOA_X

ClientSampleId :

JC-02-101818-B

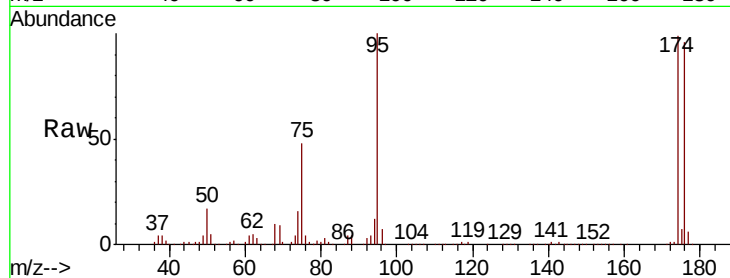
Tot Ion: 95 Resp: 158887

Ion Ratio Lower Upper

95 100

174 96.1 0.0 185.2

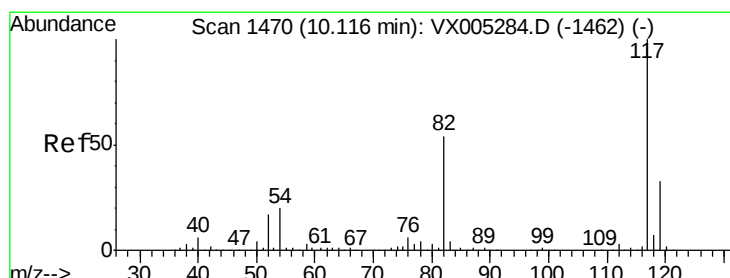
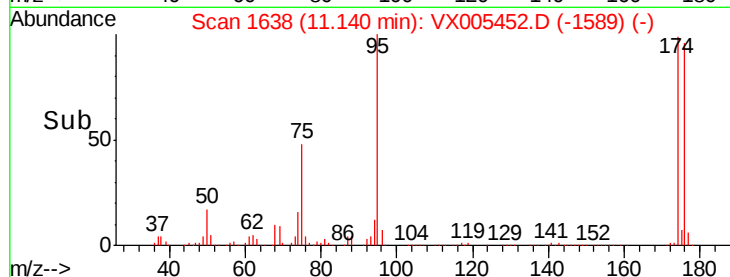
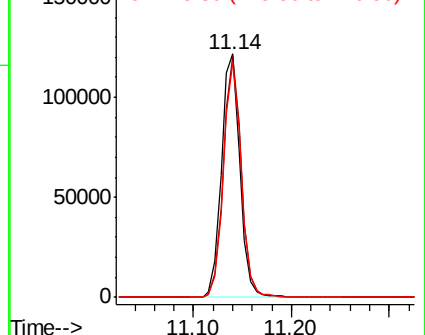
176 92.9 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX005452.D

Acq: 19 Oct 2018 12:33

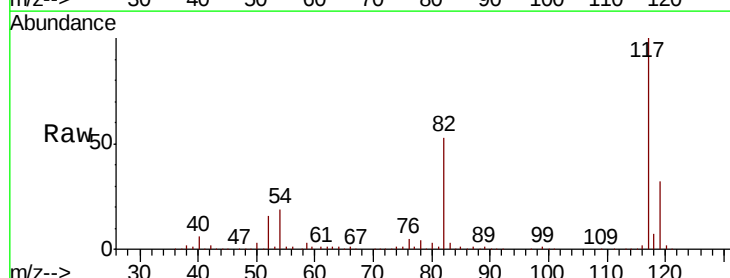
Tgt Ion: 117 Resp: 366625

Ion Ratio Lower Upper

117 100

82 53.4 47.8 71.6

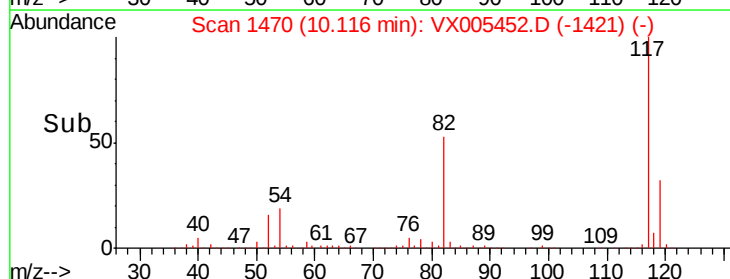
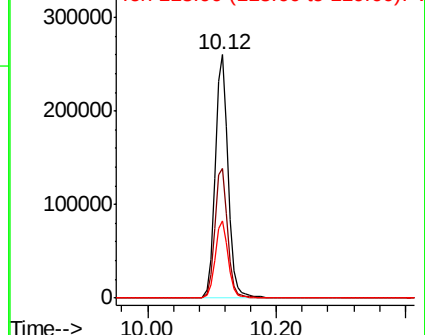
119 31.8 29.3 43.9

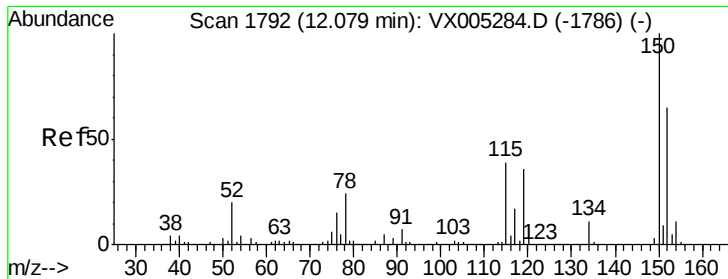


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX005452.D

Acq: 19 Oct 2018 12:33

Instrument :

MSVOA_X

ClientSampleId :

JC-02-101818-B

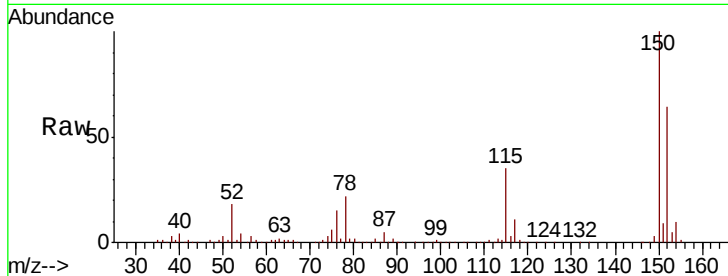
Tot Ion:152 Resp: 174805

Ion Ratio Lower Upper

152 100

115 54.3 39.0 117.0

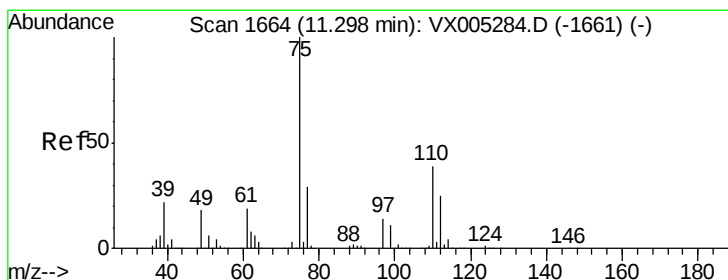
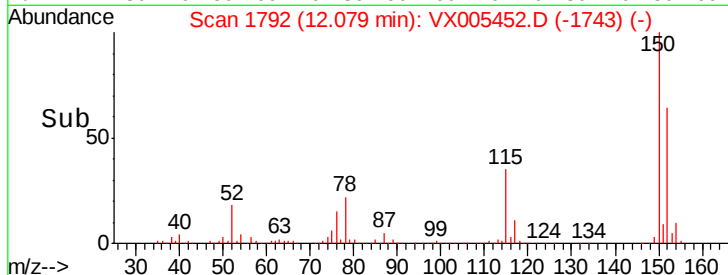
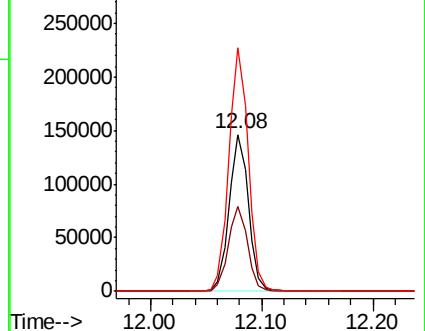
150 156.5 0.0 351.0



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: 23.040 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005452.D

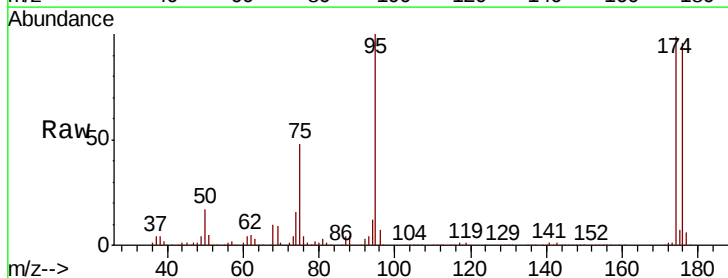
Acq: 19 Oct 2018 12:33

Tgt Ion: 75 Resp: 78123

Ion Ratio Lower Upper

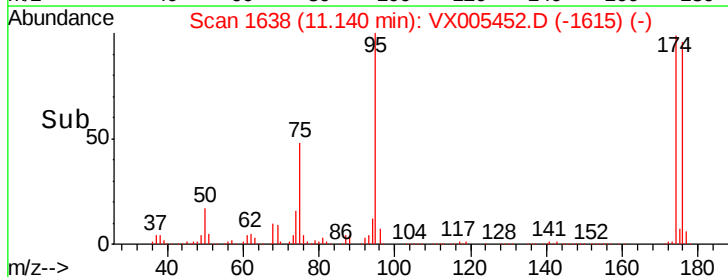
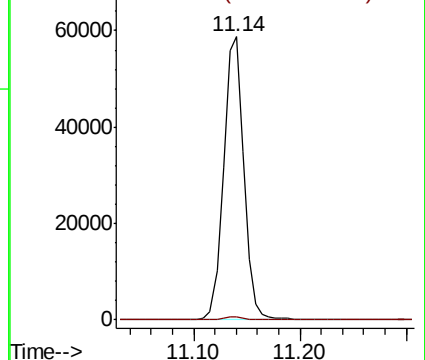
75 100

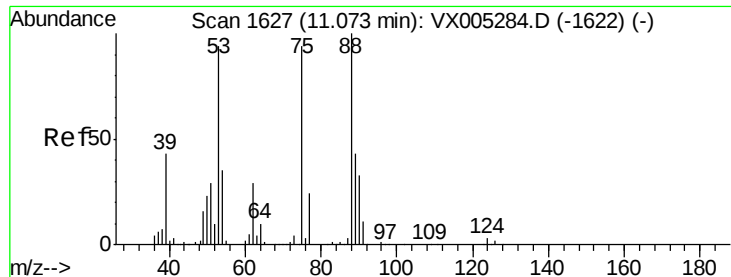
77 1.4 20.2 60.6#



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: 70.007 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005452.D

Acq: 19 Oct 2018 12:33

Instrument :

MSVOA_X

ClientSampleId :

JC-02-101818-B

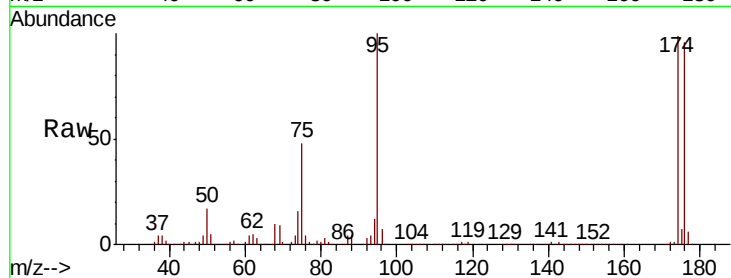
Tot Ion: 75 Resp: 78123

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

