

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032720\
 Data File : VX015419.D
 Acq On : 28 Mar 2020 06:56
 Operator : JC/SP
 Sample : L2018-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2

Quant Time: Mar 30 01:55:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

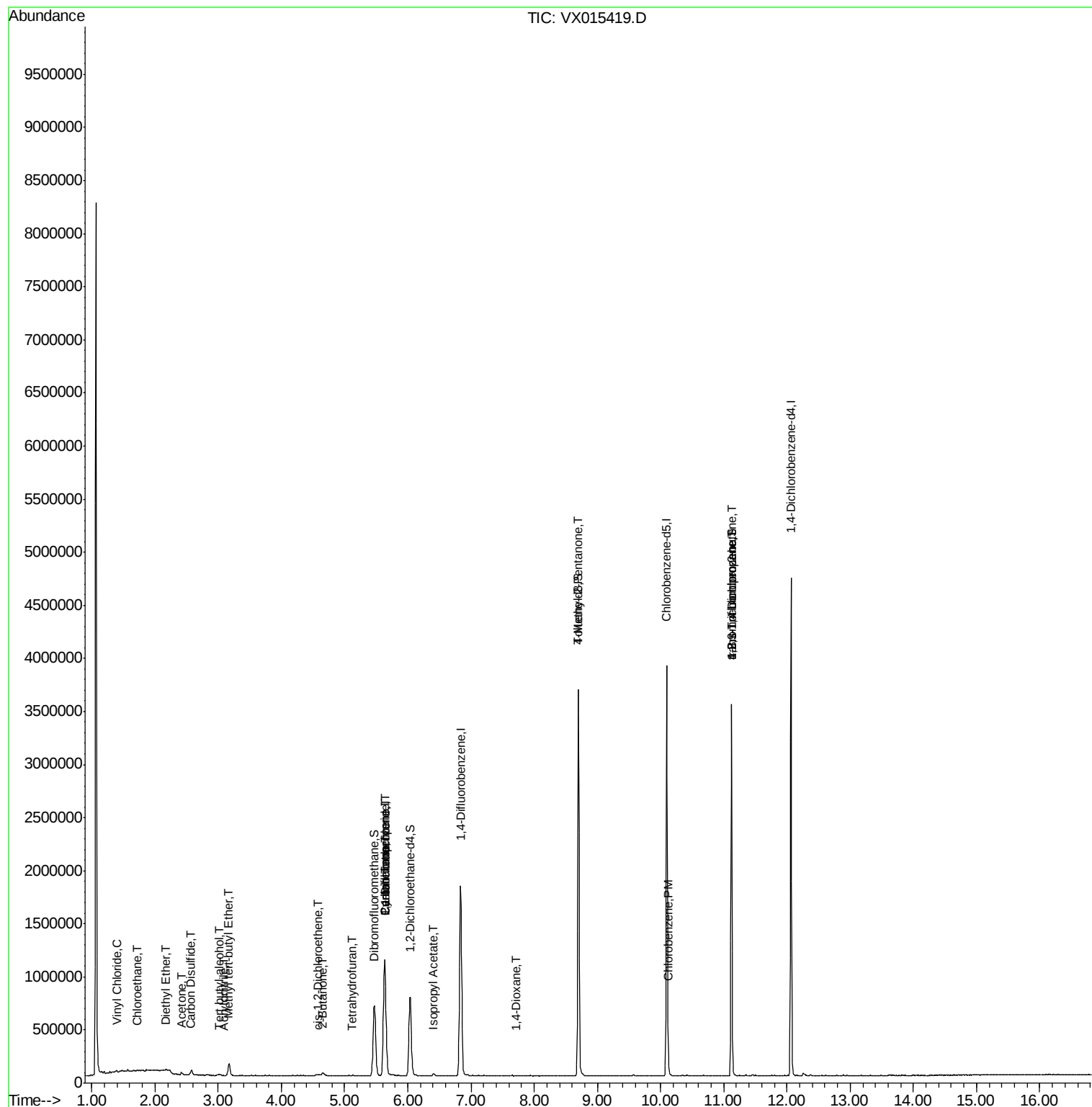
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	1078628	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1762703	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1691417	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	915775	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	734258	48.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.54%	
35) Dibromofluoromethane	5.47	113	563734	50.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.06%	
50) Toluene-d8	8.70	98	2145080	51.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.42%	
62) 4-Bromofluorobenzene	11.12	95	933437	55.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.74%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.39	62	3015	0.271	ug/l	93
5) Bromomethane	1.64	94	368	Below Cal	#	56
6) Chloroethane	1.72	64	1461	0.212	ug/l	99
8) Diethyl Ether	2.17	74	3130	0.498	ug/l	88
11) Tert butyl alcohol	3.01	59	10460	2.873	ug/l	98
15) Acrylonitrile	3.09	53	2540	0.366	ug/l #	33
16) Acetone	2.42	43	27812	4.255	ug/l	94
17) Carbon Disulfide	2.55	76	17465	0.562	ug/l	99
19) Methyl tert-butyl Ether	3.17	73	126728	3.209	ug/l	99
25) 2-Butanone	4.66	43	6391	0.608	ug/l #	67
27) cis-1,2-Dichloroethene	4.58	96	8079	0.618	ug/l	96
29) Tetrahydrofuran	5.12	42	4330	0.641	ug/l #	84
31) Cyclohexane	5.64	56	23769	1.234	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	81255	5.003	ug/l #	53
38) Carbon Tetrachloride	5.63	117	106065	6.029	ug/l #	14
43) Isopropyl Acetate	6.40	43	9357	0.262	ug/l #	60
49) 1,4-Dioxane	7.71	88	126	0.379	ug/l #	1
51) 4-Methyl-2-Pentanone	8.70	43	17063	0.843	ug/l #	1
65) Chlorobenzene	10.12	112	11293	0.335	ug/l	95
76) 1,2,3-Trichloropropane	11.12	75	484056	25.704	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	484056	61.675	ug/l #	10

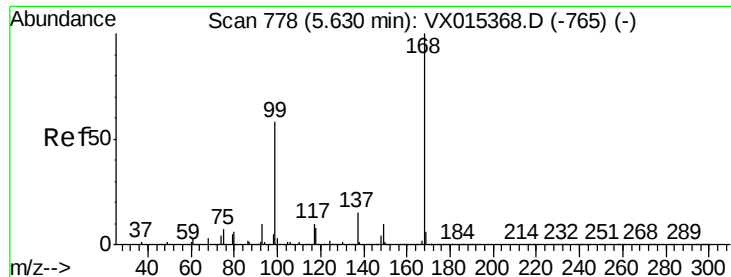
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 27 09:35:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015419.D

Acq: 28 Mar 2020 06:56

Instrument :

MSVOA_X

ClientSampleId :

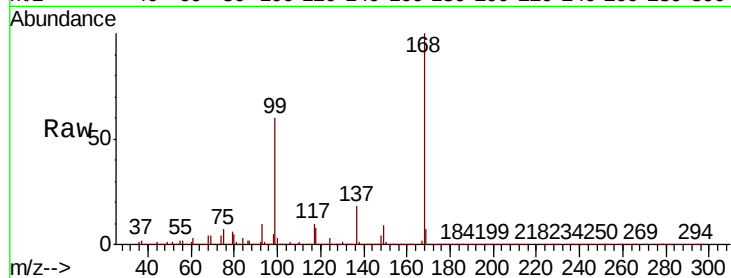
MW-2

Tot Ion:168 Resp: 1078628

Ion Ratio Lower Upper

168 100

99 60.0 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

400000

300000

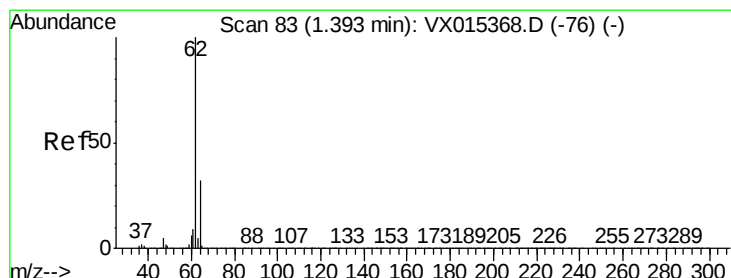
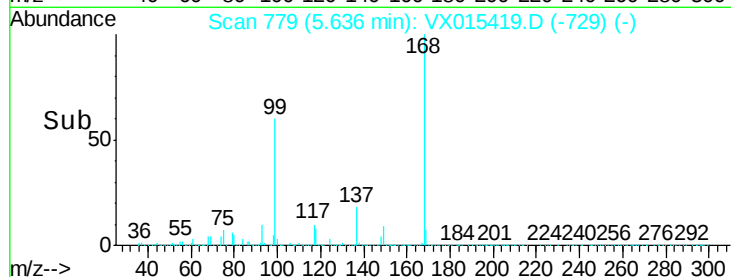
200000

100000

0

Time-->

5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 0.271 ug/l

RT: 1.39 min Scan# 83

Delta R.T. 0.00 min

Lab File: VX015419.D

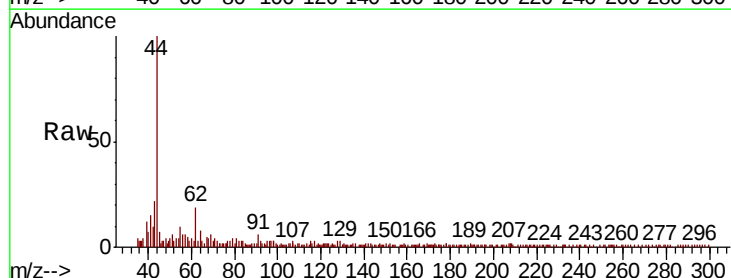
Acq: 28 Mar 2020 06:56

Tgt Ion: 62 Resp: 3015

Ion Ratio Lower Upper

62 100

64 28.6 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

4000

3000

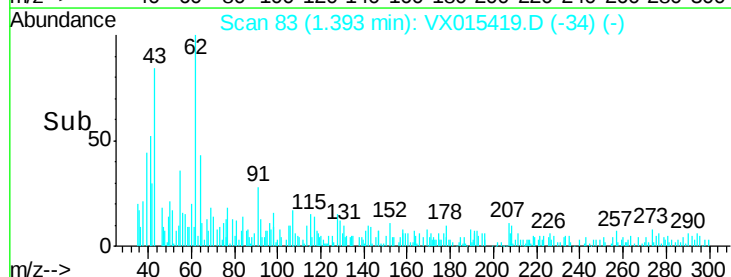
2000

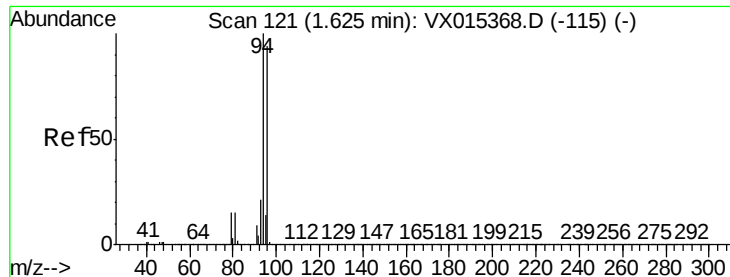
1000

0

Time-->

1.36 1.38 1.40 1.42 1.44





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX015419.D

Acq: 28 Mar 2020 06:56

Instrument :

MSVOA_X

ClientSampled :

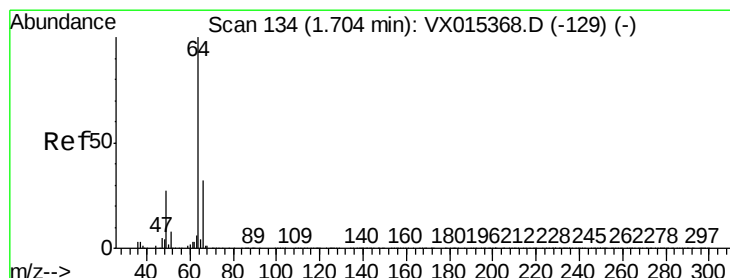
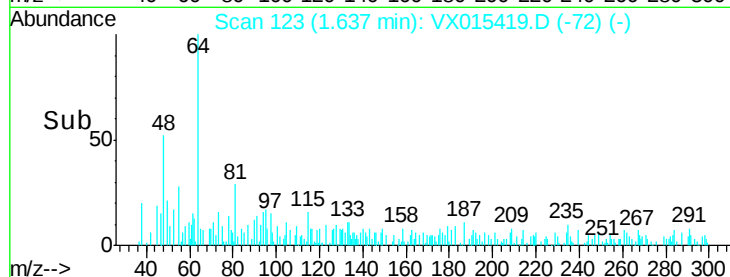
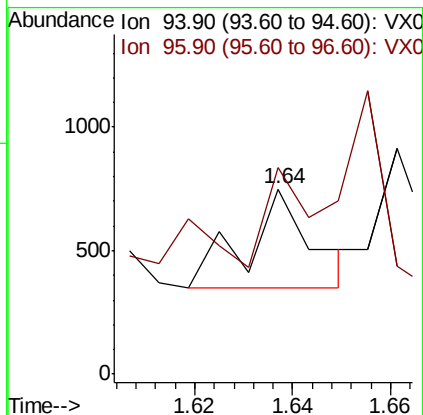
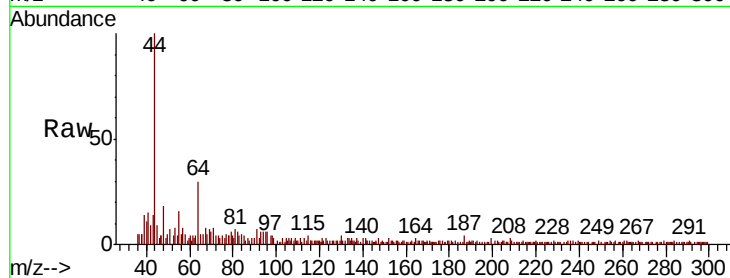
MW-2

Tot Ion: 94 Resp: 368

Ion Ratio Lower Upper

94 100

96 51.1 74.8 112.2#



#6

Chloroethane

Concen: 0.212 ug/l

RT: 1.72 min Scan# 137

Delta R.T. 0.02 min

Lab File: VX015419.D

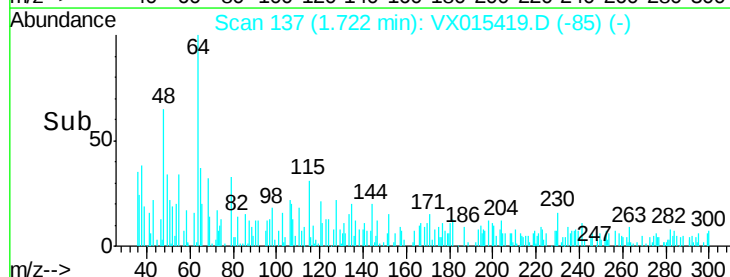
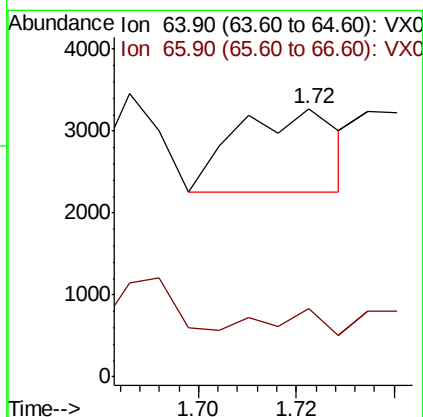
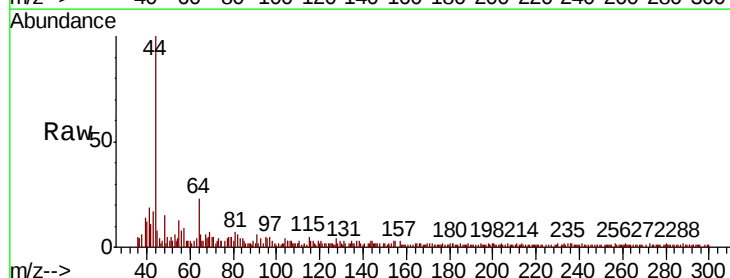
Acq: 28 Mar 2020 06:56

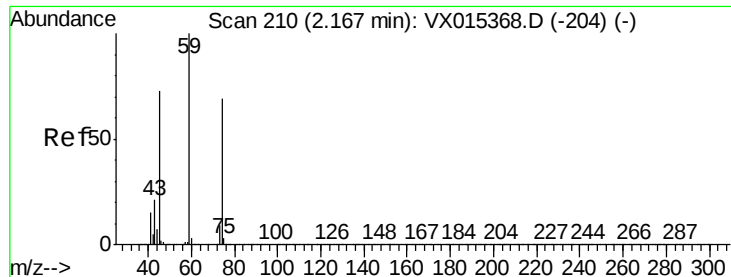
Tgt Ion: 64 Resp: 1461

Ion Ratio Lower Upper

64 100

66 31.5 25.4 38.2





#8

Diethyl Ether

Concen: 0.498 ug/l

RT: 2.17 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX015419.D

Acq: 28 Mar 2020 06:56

Instrument :

MSVOA_X

ClientSampleId :

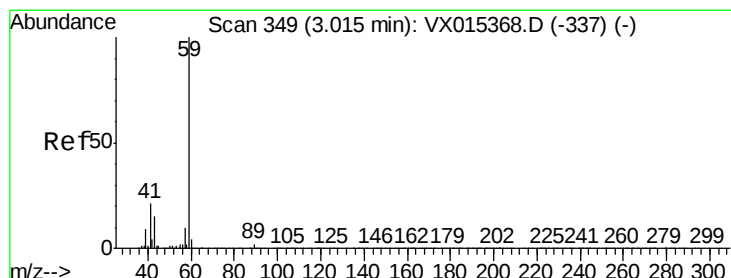
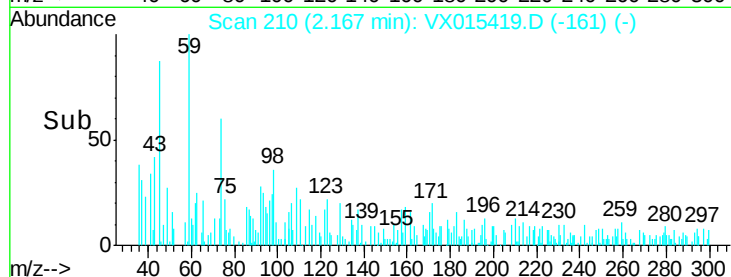
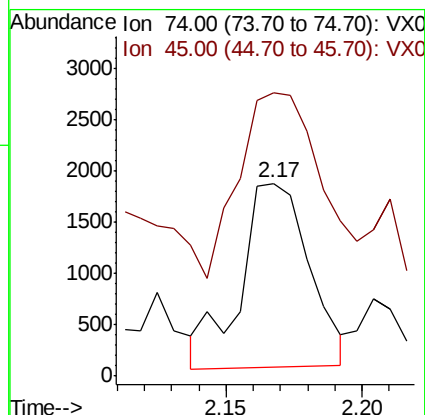
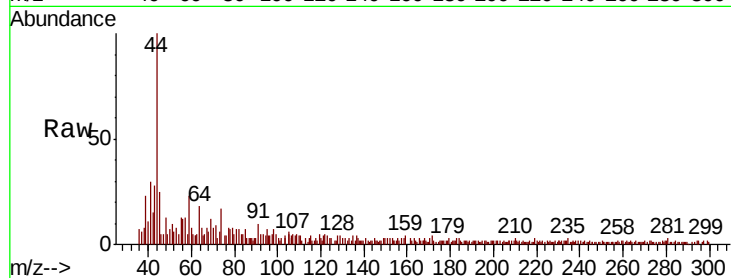
MW-2

Tot Ion: 74 Resp: 3130

Ion Ratio Lower Upper

74 100

45 119.7 53.8 161.4



#11

Tert butyl alcohol

Concen: 2.873 ug/l

RT: 3.01 min Scan# 349

Delta R.T. 0.00 min

Lab File: VX015419.D

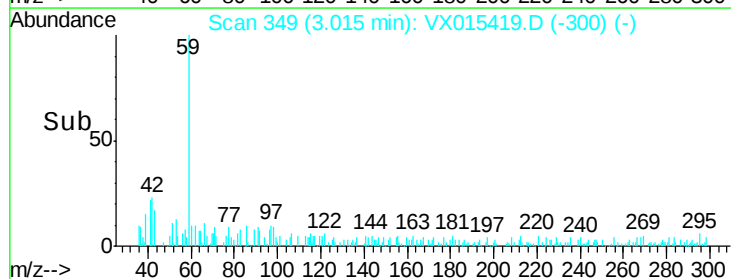
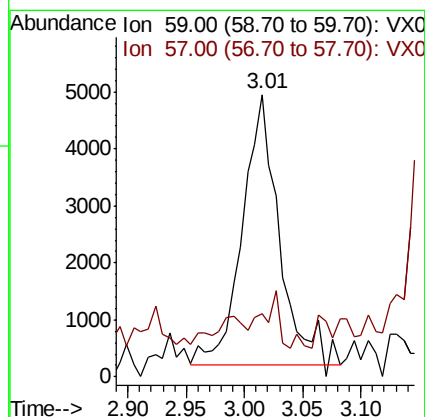
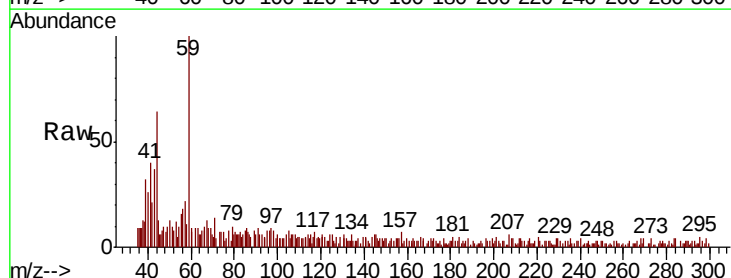
Acq: 28 Mar 2020 06:56

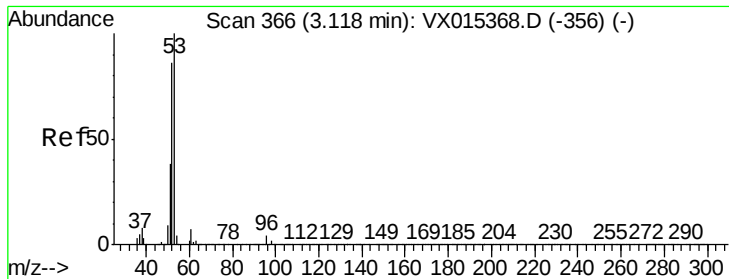
Tgt Ion: 59 Resp: 10460

Ion Ratio Lower Upper

59 100

57 9.5 8.1 12.1





#15

Acrylonitrile

Concen: 0.366 ug/l

RT: 3.09 min Scan# 361

Delta R.T. -0.03 min

Lab File: VX015419.D

Acq: 28 Mar 2020 06:56

Instrument :

MSVOA_X

ClientSampled :

MW-2

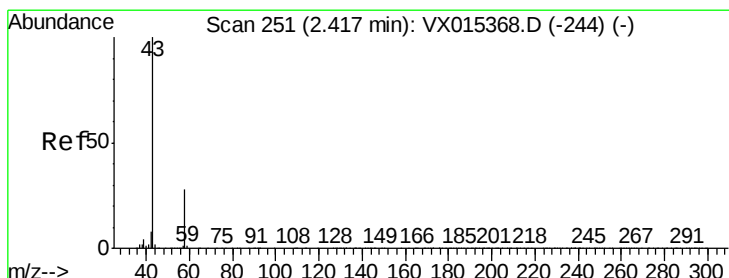
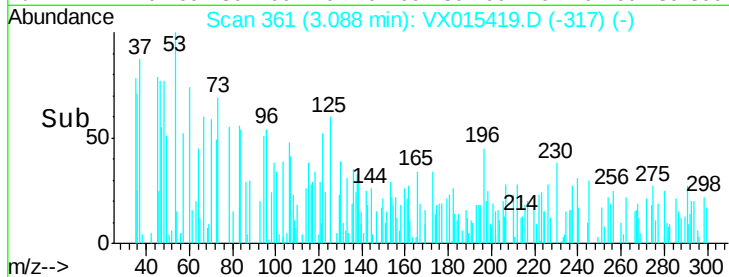
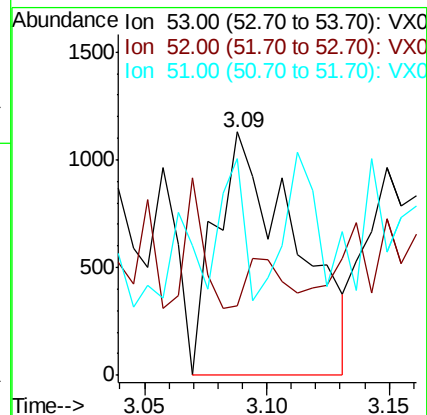
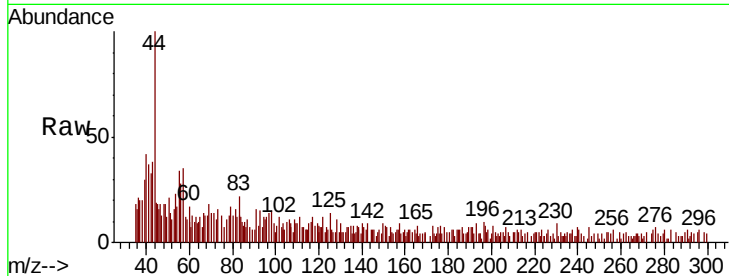
Tot Ion: 53 Resp: 2540

Ion Ratio Lower Upper

53 100

52 9.5 66.8 100.2#

51 16.7 29.5 44.3#



#16

Acetone

Concen: 4.255 ug/l

RT: 2.42 min Scan# 251

Delta R.T. 0.00 min

Lab File: VX015419.D

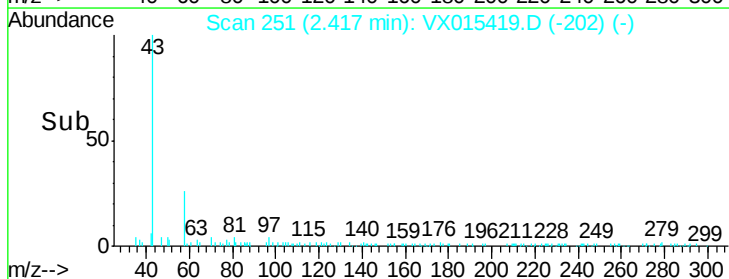
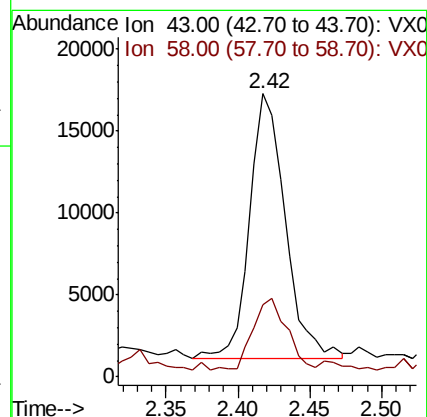
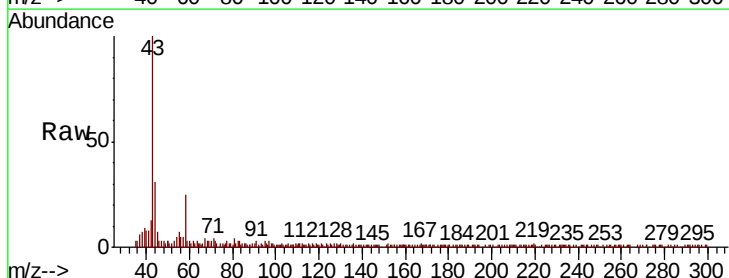
Acq: 28 Mar 2020 06:56

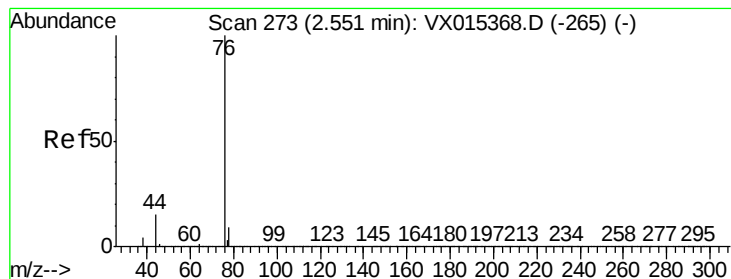
Tgt Ion: 43 Resp: 27812

Ion Ratio Lower Upper

43 100

58 24.4 22.1 33.1





#17

Carbon Disulfide

Concen: 0.562 ug/l

RT: 2.55 min Scan# 273

Delta R.T. 0.00 min

Lab File: VX015419.D

Acq: 28 Mar 2020 06:56

Instrument :

MSVOA_X

ClientSampled :

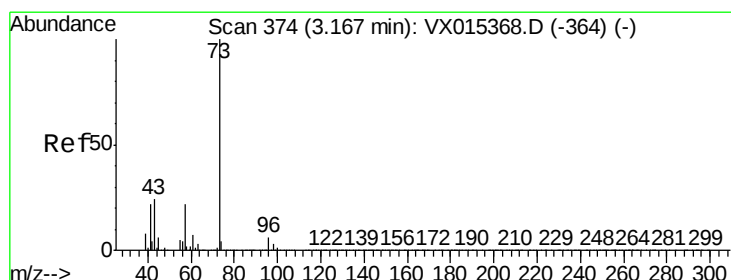
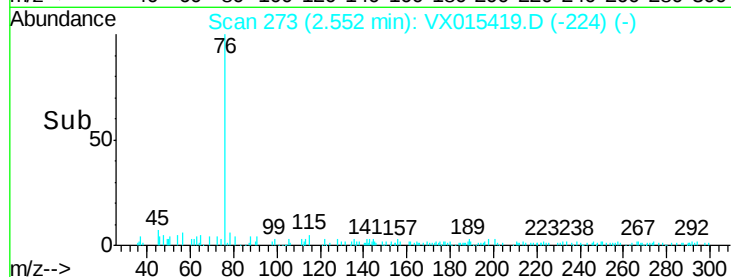
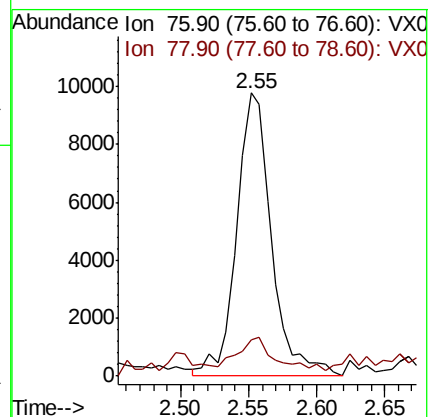
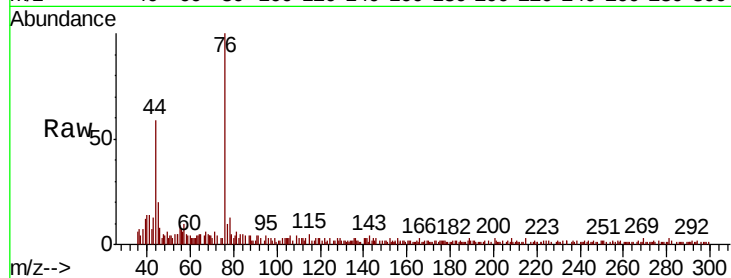
MW-2

Tot Ion: 76 Resp: 17465

Ion Ratio Lower Upper

76 100

78 9.3 7.1 10.7



#19

Methyl tert-butyl Ether

Concen: 3.209 ug/l

RT: 3.17 min Scan# 375

Delta R.T. 0.01 min

Lab File: VX015419.D

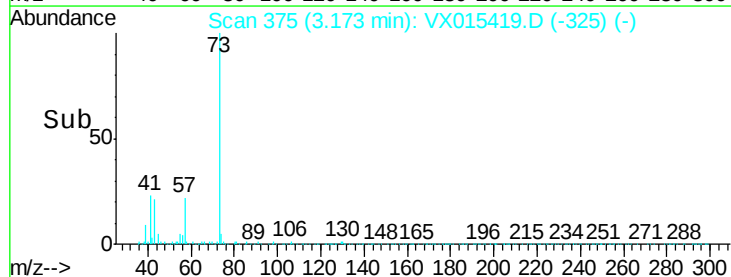
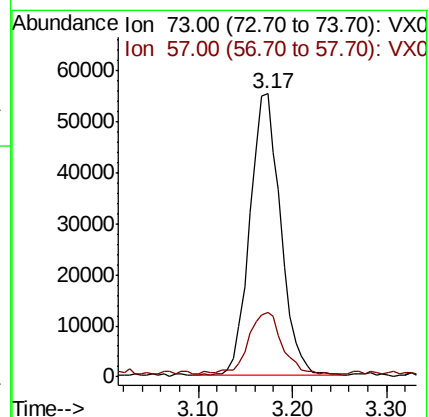
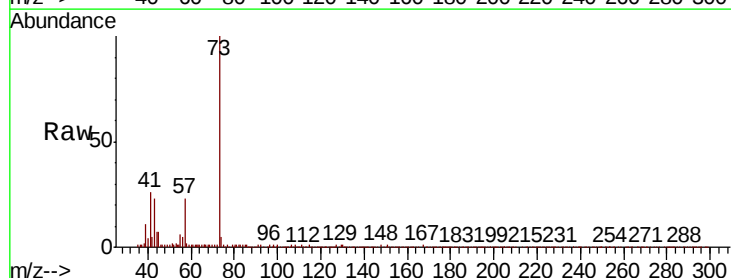
Acq: 28 Mar 2020 06:56

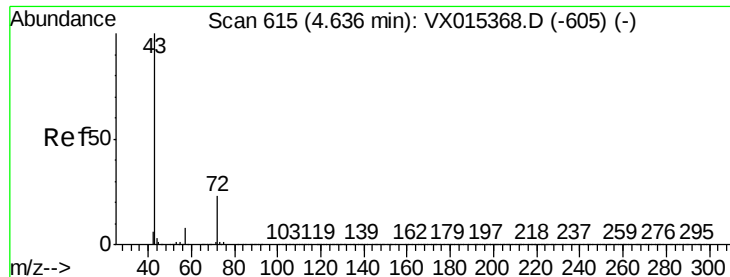
Tgt Ion: 73 Resp: 126728

Ion Ratio Lower Upper

73 100

57 21.7 17.9 26.9





#25

2-Butanone

Concen: 0.608 ug/l

RT: 4.66 min Scan# 619

Delta R.T. 0.02 min

Lab File: VX015419.D

Acq: 28 Mar 2020 06:56

Instrument :

MSVOA_X

ClientSampled :

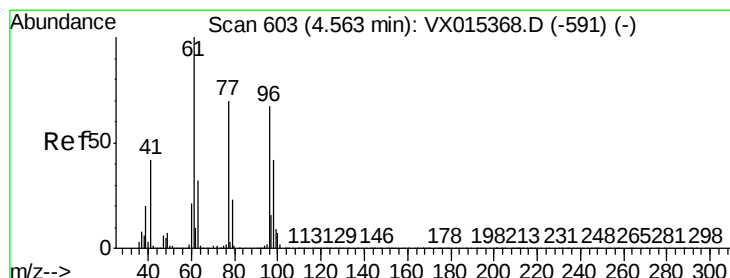
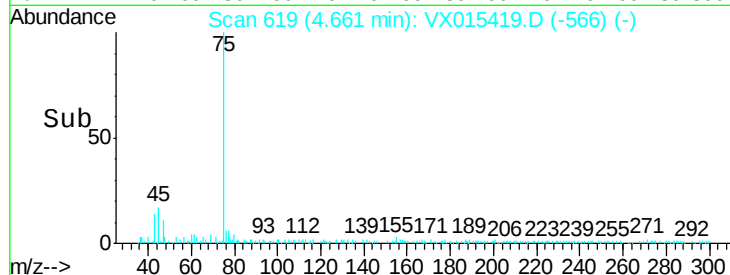
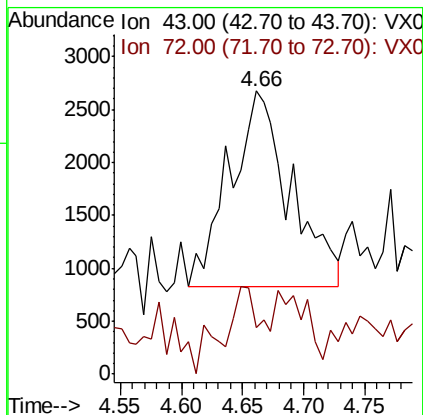
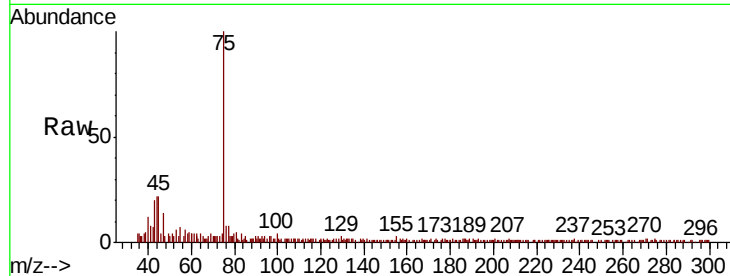
MW-2

Tot Ion: 43 Resp: 6391

Ion Ratio Lower Upper

43 100

72 7.3 19.0 28.4#



#27

cis-1,2-Dichloroethene

Concen: 0.618 ug/l

RT: 4.58 min Scan# 605

Delta R.T. 0.01 min

Lab File: VX015419.D

Acq: 28 Mar 2020 06:56

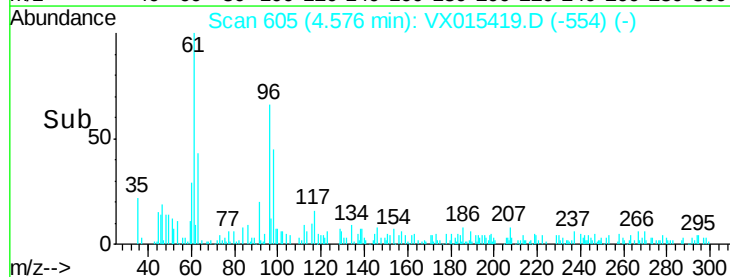
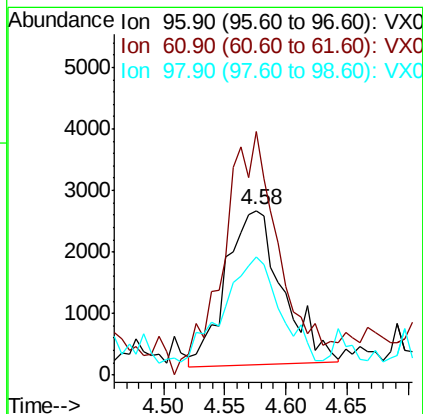
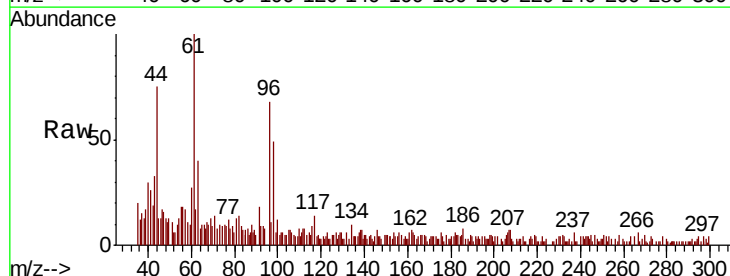
Tgt Ion: 96 Resp: 8079

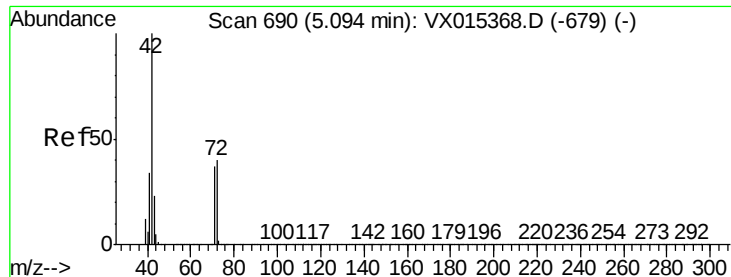
Ion Ratio Lower Upper

96 100

61 160.1 0.0 308.4

98 67.0 0.0 129.2





#29

Tetrahydrofuran

Concen: 0.641 ug/l

RT: 5.12 min Scan# 694

Delta R.T. 0.02 min

Lab File: VX015419.D

Acq: 28 Mar 2020 06:56

Instrument :

MSVOA_X

ClientSampled :

MW-2

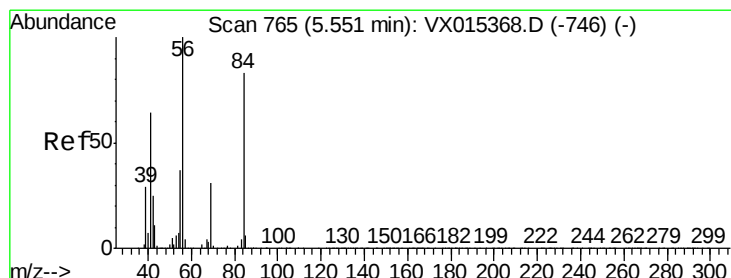
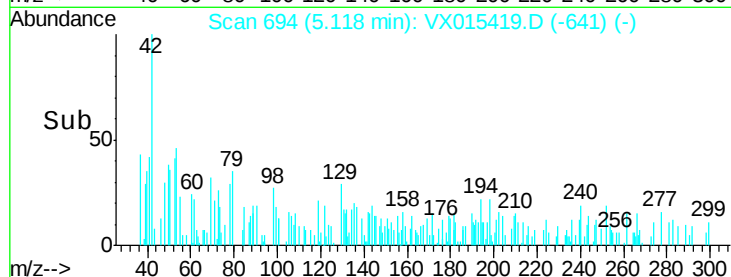
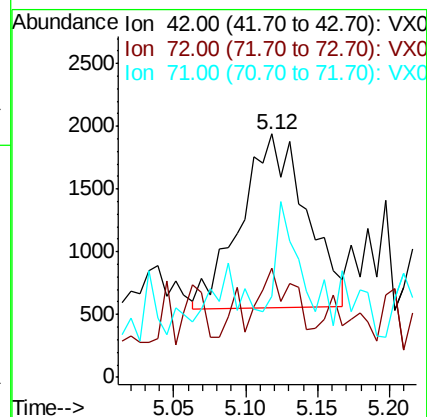
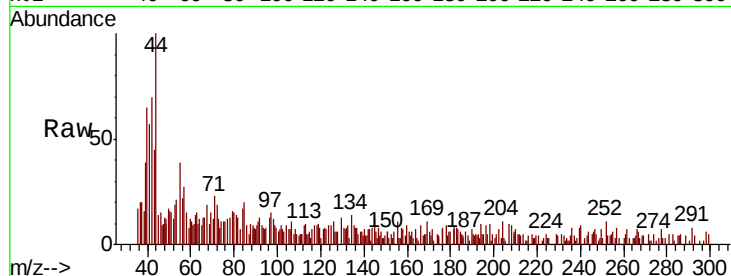
Tot Ion: 42 Resp: 4330

Ion Ratio Lower Upper

42 100

72 26.7 31.7 47.5#

71 30.1 29.6 44.4



#31

Cyclohexane

Concen: 1.234 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.09 min

Lab File: VX015419.D

Acq: 28 Mar 2020 06:56

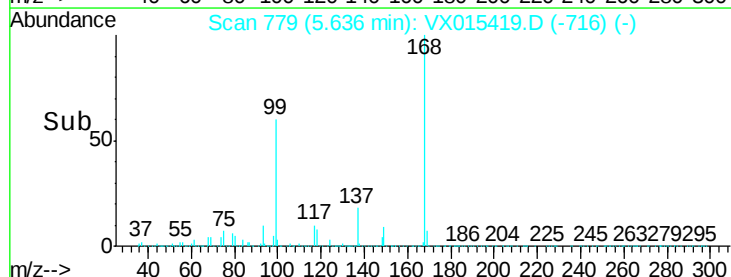
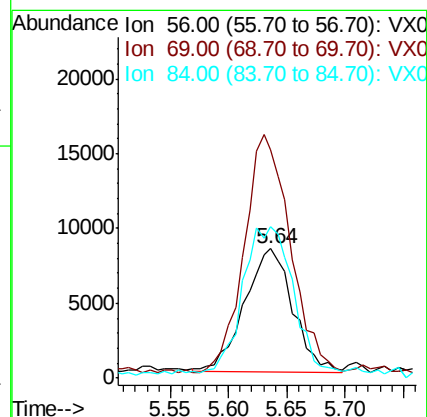
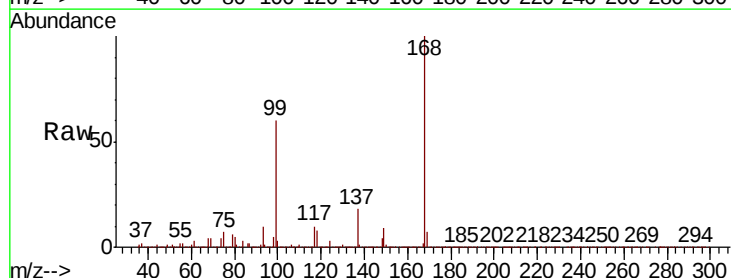
Tgt Ion: 56 Resp: 23769

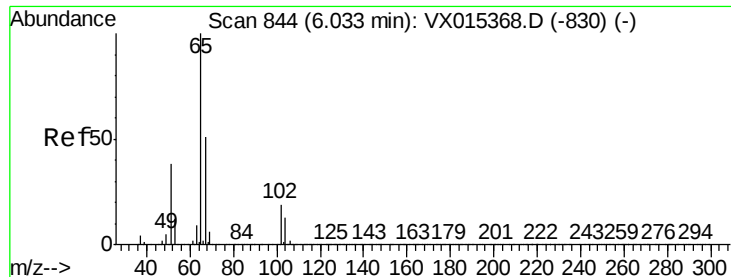
Ion Ratio Lower Upper

56 100

69 183.8 24.6 36.8#

84 119.1 66.1 99.1#

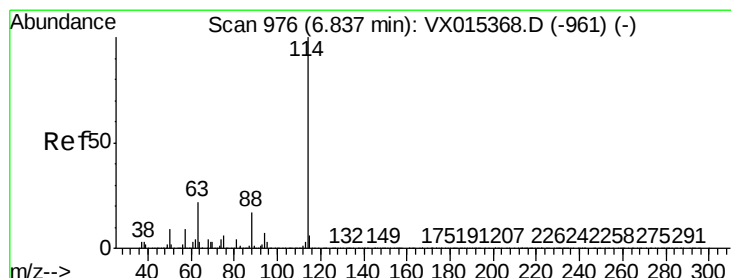
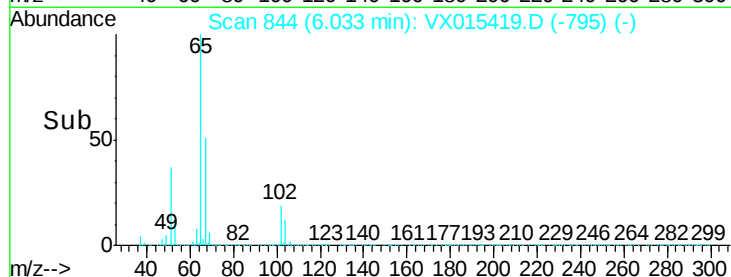
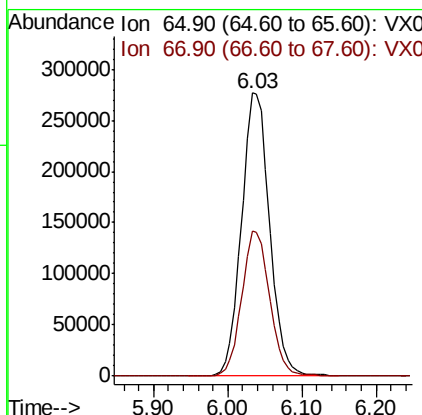
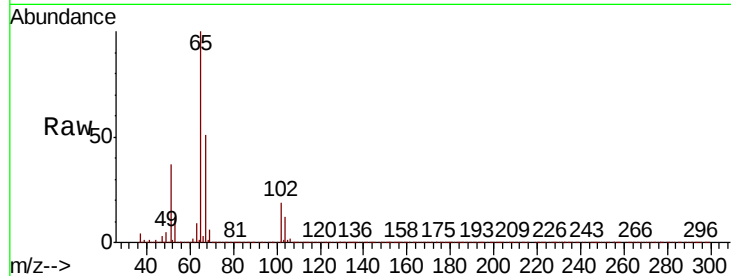




#33
 1,2-Dichloroethane-d4
 Concen: 48.266 ug/l
 RT: 6.03 min Scan# 844
 Delta R.T. 0.00 min
 Lab File: VX015419.D
 Acq: 28 Mar 2020 06:56

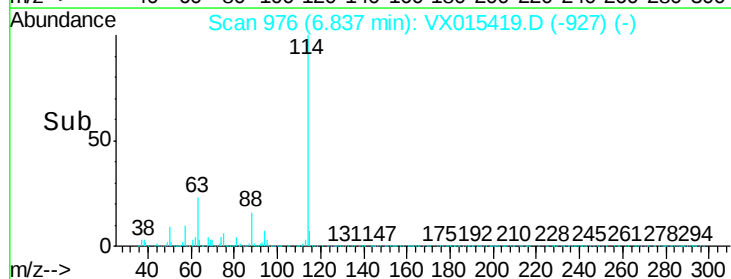
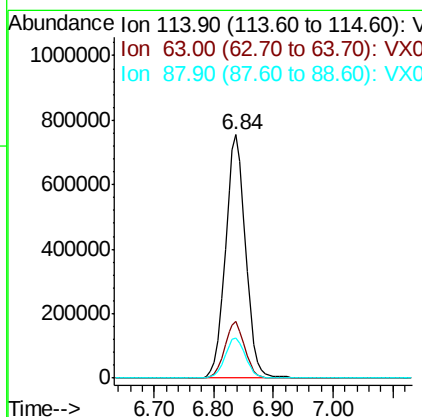
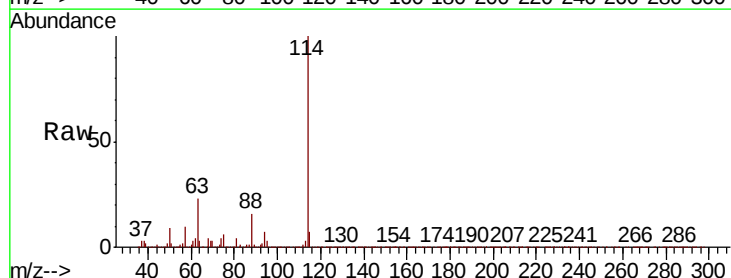
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2

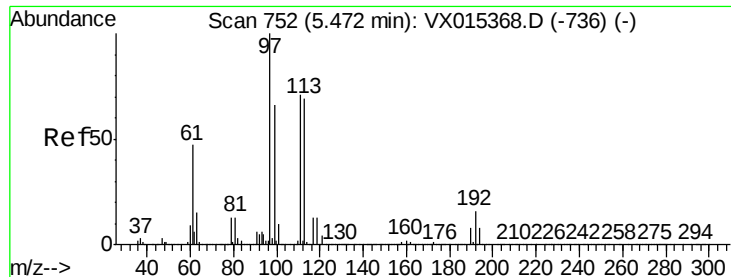
Tot Ion: 65 Resp: 734258
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 976
 Delta R.T. 0.00 min
 Lab File: VX015419.D
 Acq: 28 Mar 2020 06:56

Tgt Ion: 114 Resp: 1762703
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 44.2
 88 16.4 0.0 33.8

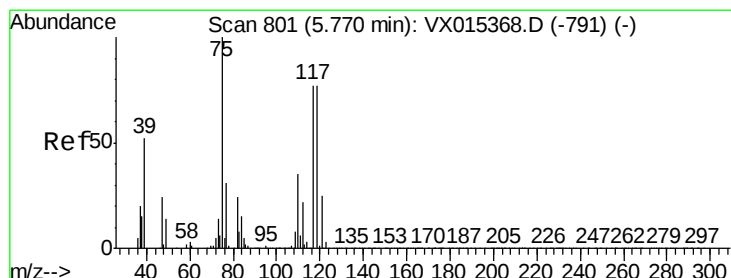
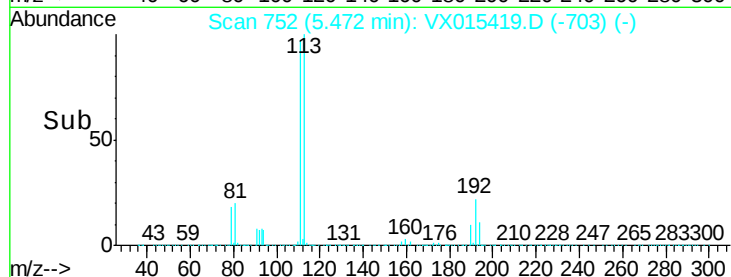
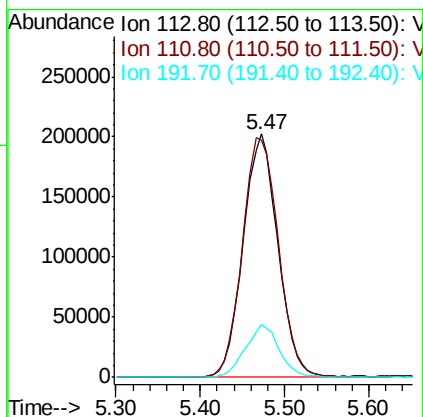
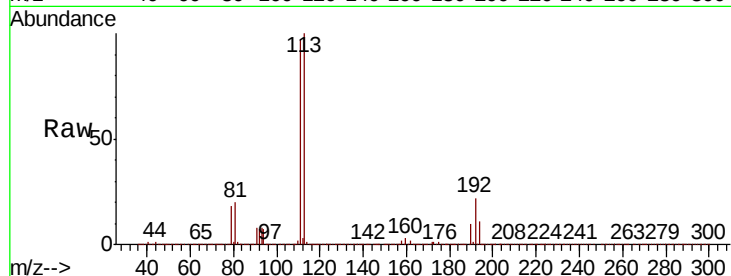




#35
 Dibromofluoromethane
 Concen: 50.031 ug/l
 RT: 5.47 min Scan# 752
 Delta R.T. 0.00 min
 Lab File: VX015419.D
 Acq: 28 Mar 2020 06:56

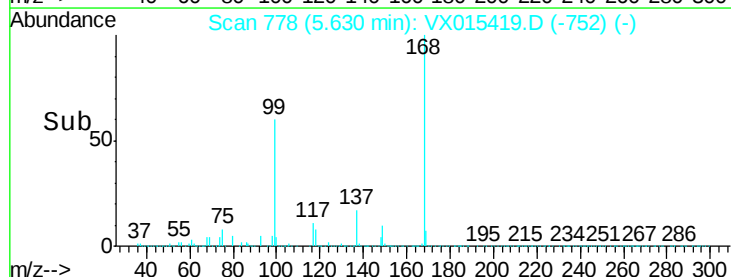
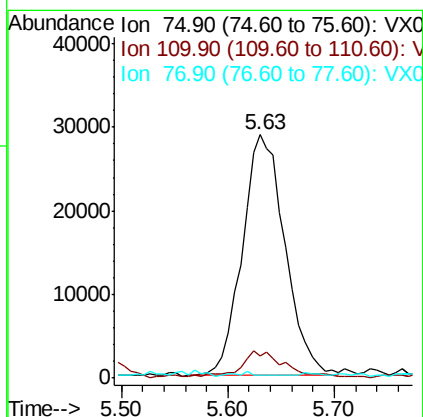
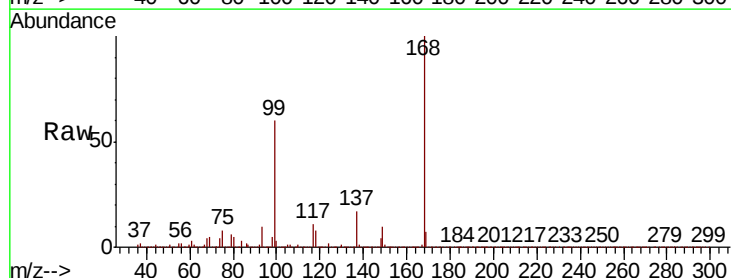
Instrument :
 MSVOA_X
 ClientSampled :
 MW-2

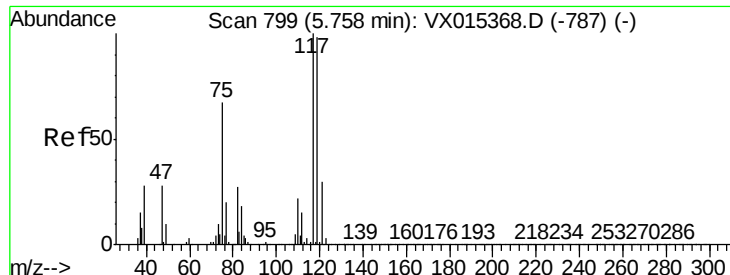
Tot Ion:113 Resp: 563734
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.5 122.3
 192 21.3 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 5.003 ug/l
 RT: 5.63 min Scan# 778
 Delta R.T. -0.14 min
 Lab File: VX015419.D
 Acq: 28 Mar 2020 06:56

Tgt Ion: 75 Resp: 81255
 Ion Ratio Lower Upper
 75 100
 110 12.0 17.1 51.3#
 77 0.4 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 6.029 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.13 min

Lab File: VX015419.D

Acq: 28 Mar 2020 06:56

Instrument :

MSVOA_X

ClientSampled :

MW-2

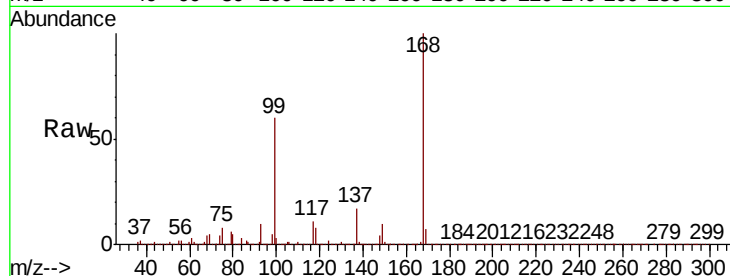
Tot Ion:117 Resp: 106065

Ion Ratio Lower Upper

117 100

119 3.4 78.0 117.0#

121 0.0 23.8 35.8#



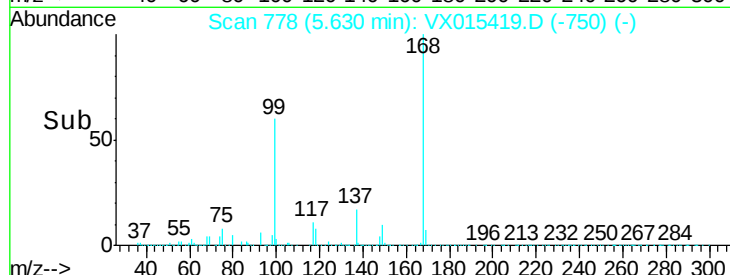
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

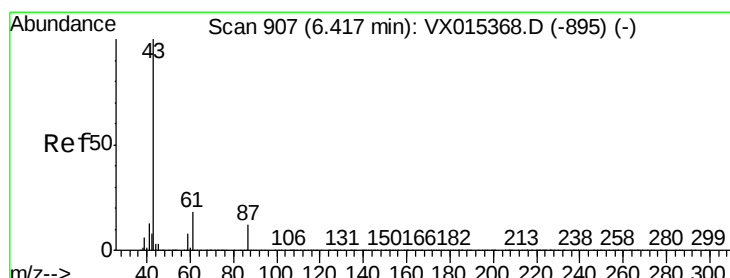
Ion 120.80 (120.50 to 121.50): V

5.63

Time-->



Time-->



#43

Isopropyl Acetate

Concen: 0.262 ug/l

RT: 6.40 min Scan# 905

Delta R.T. -0.01 min

Lab File: VX015419.D

Acq: 28 Mar 2020 06:56

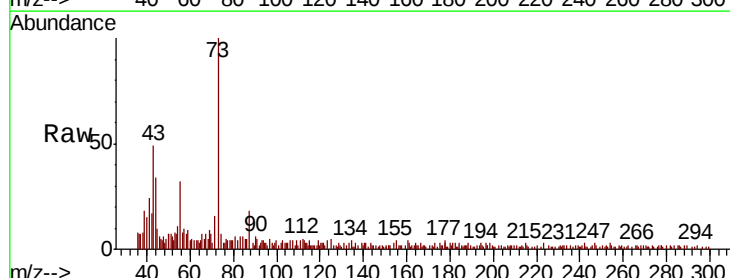
Tgt Ion: 43 Resp: 9357

Ion Ratio Lower Upper

43 100

61 10.7 14.8 22.2#

87 40.7 9.4 14.0#



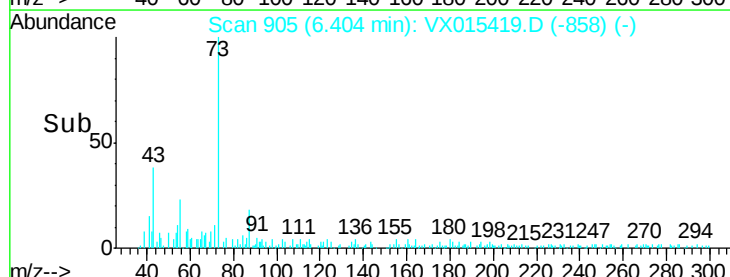
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

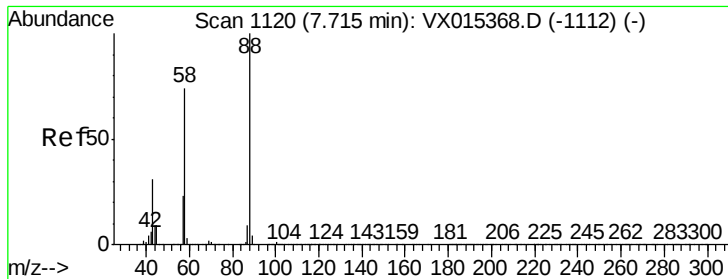
Ion 87.00 (86.70 to 87.70): VX0

6.40

Time-->



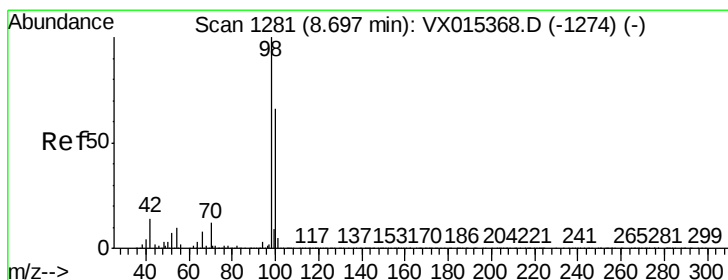
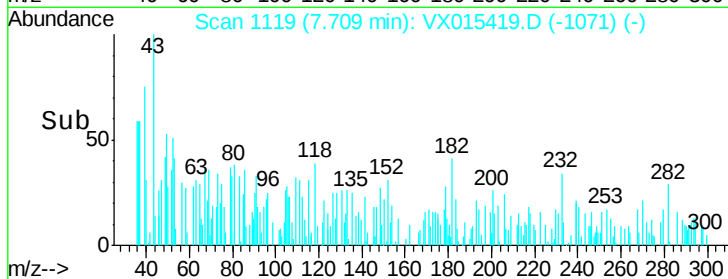
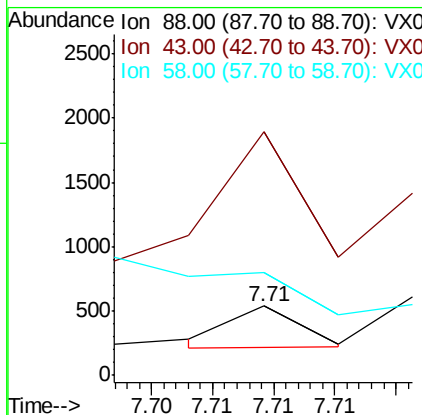
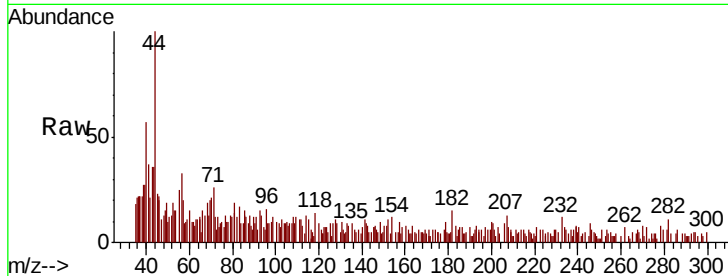
Time-->



#49
1,4-Dioxane
Concen: 0.379 ug/l
RT: 7.71 min Scan# 1119
Delta R.T. -0.01 min
Lab File: VX015419.D
Acq: 28 Mar 2020 06:56

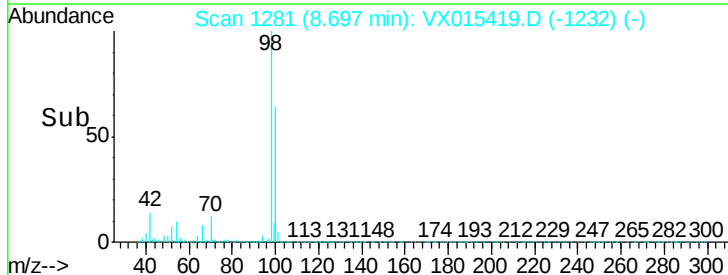
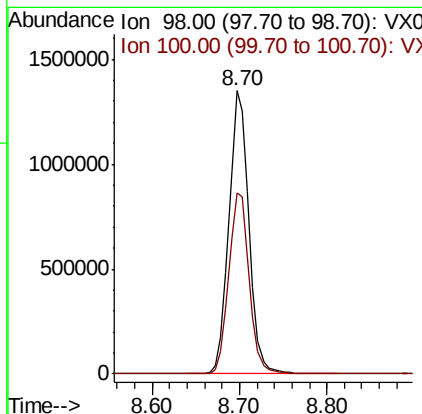
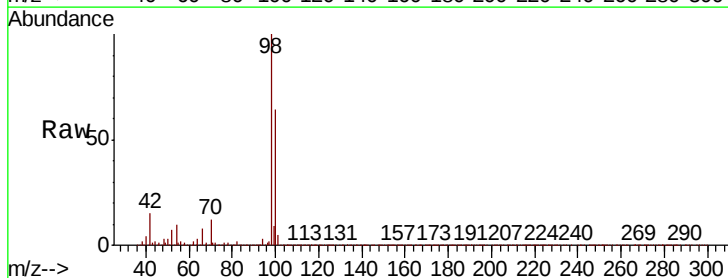
Instrument :
MSVOA_X
ClientSampleId :
MW-2

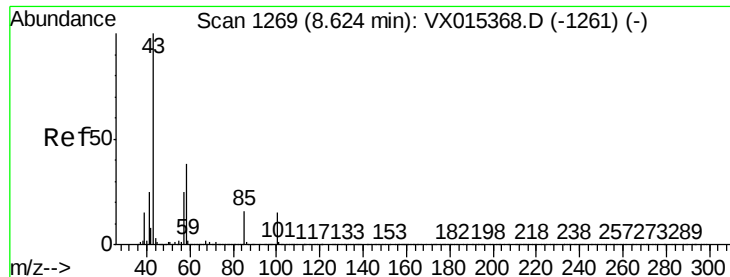
Tot Ion: 88 Resp: 126
Ion Ratio Lower Upper
88 100
43 573.8 30.1 45.1#
58 0.0 60.6 90.8#



#50
Toluene-d8
Concen: 51.708 ug/l
RT: 8.70 min Scan# 1281
Delta R.T. 0.00 min
Lab File: VX015419.D
Acq: 28 Mar 2020 06:56

Tgt Ion: 98 Resp: 2145080
Ion Ratio Lower Upper
98 100
100 65.7 53.5 80.3





#51

4-Methyl-2-Pentanone

Concen: 0.843 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. 0.07 min

Lab File: VX015419.D

Acq: 28 Mar 2020 06:56

Instrument :

MSVOA_X

ClientSampled :

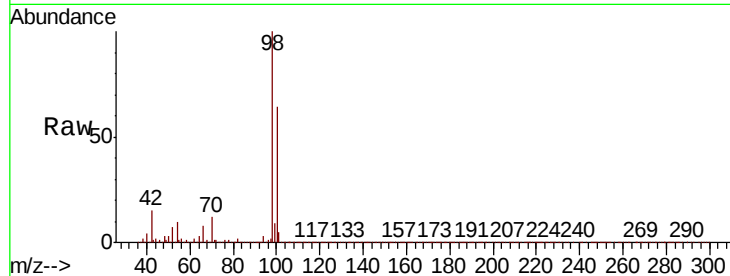
MW-2

Tot Ion: 43 Resp: 17063

Ion Ratio Lower Upper

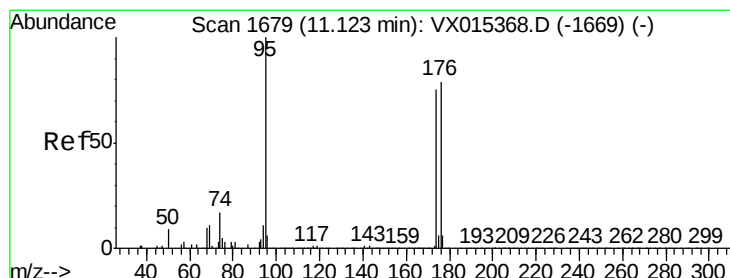
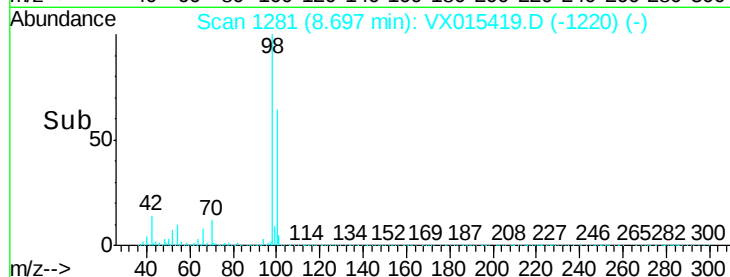
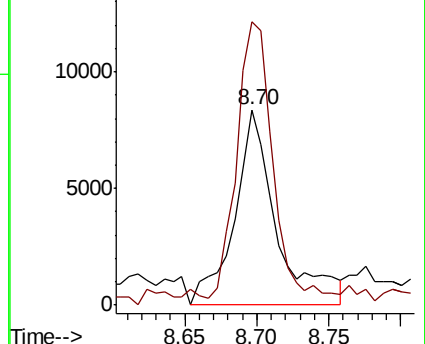
43 100

58 122.2 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 55.366 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VX015419.D

Acq: 28 Mar 2020 06:56

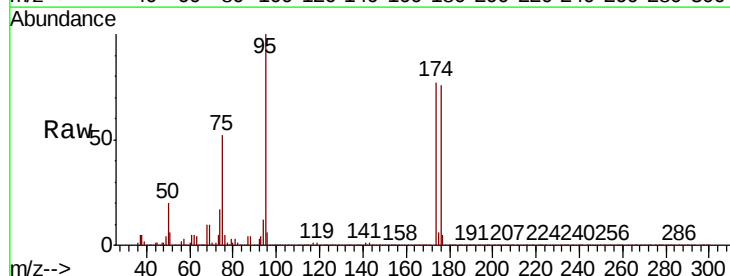
Tgt Ion: 95 Resp: 933437

Ion Ratio Lower Upper

95 100

174 76.2 0.0 158.6

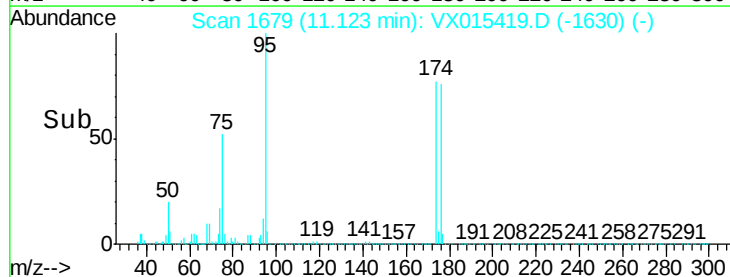
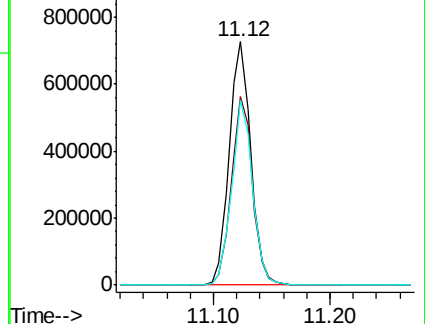
176 73.6 0.0 159.0

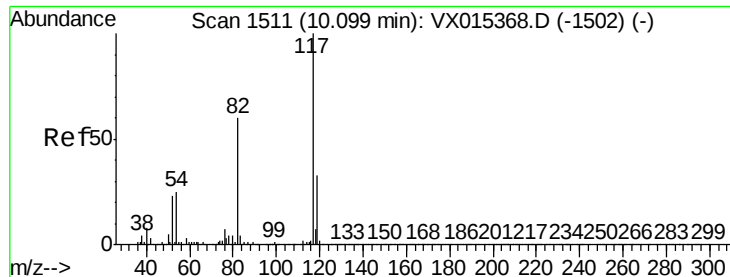


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

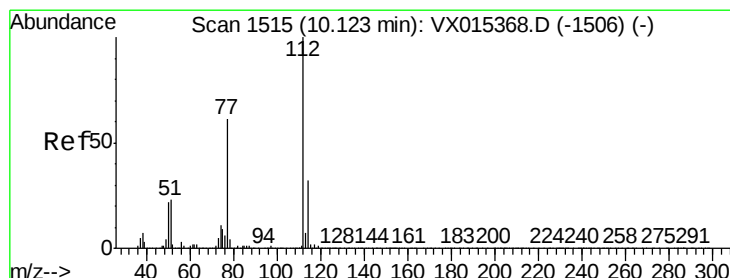
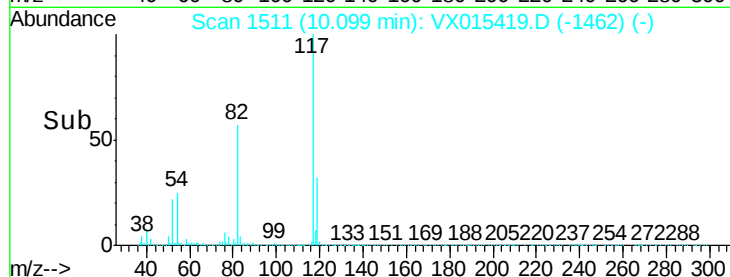
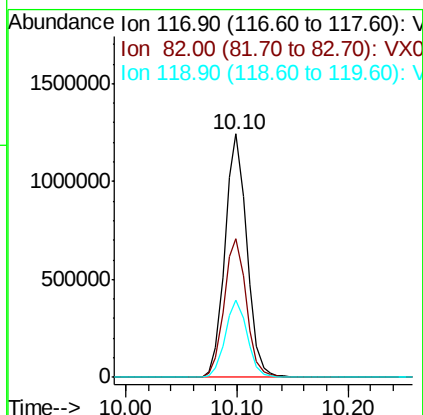
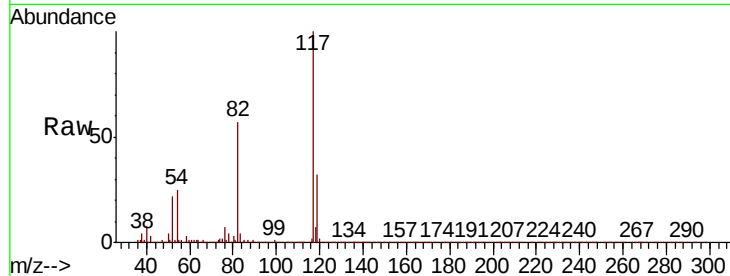




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. 0.00 min
Lab File: VX015419.D
Acq: 28 Mar 2020 06:56

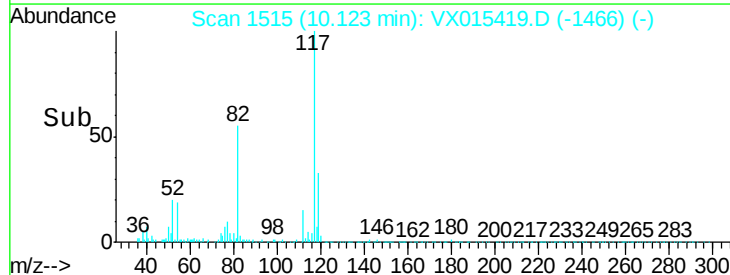
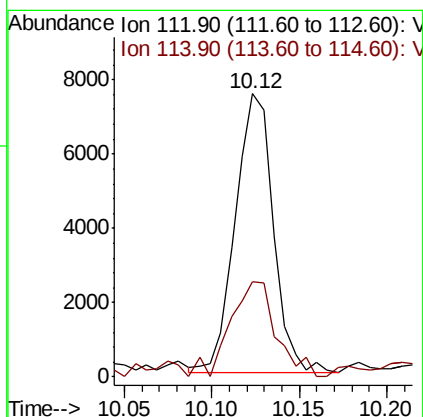
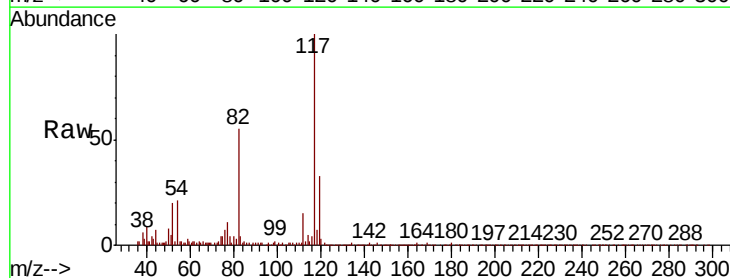
Instrument :
MSVOA_X
ClientSampleId :
MW-2

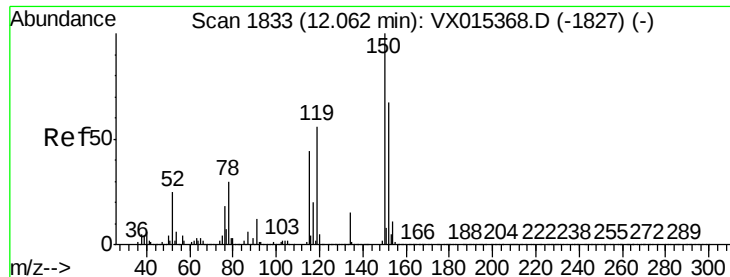
Tot Ion:117 Resp: 1691417
Ion Ratio Lower Upper
117 100
82 57.0 47.8 71.8
119 31.6 26.8 40.2



#65
Chlorobenzene
Concen: 0.335 ug/l
RT: 10.12 min Scan# 1515
Delta R.T. 0.00 min
Lab File: VX015419.D
Acq: 28 Mar 2020 06:56

Tgt Ion:112 Resp: 11293
Ion Ratio Lower Upper
112 100
114 34.4 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX015419.D

Acq: 28 Mar 2020 06:56

Instrument :

MSVOA_X

ClientSampled :

MW-2

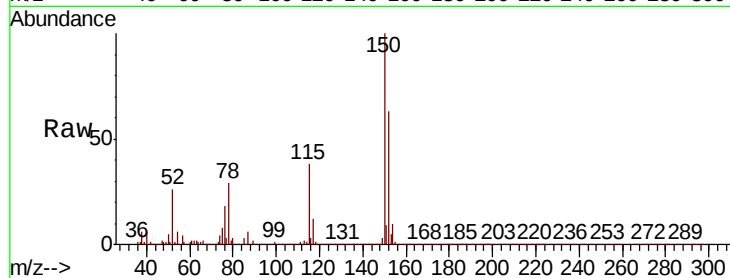
Tot Ion:152 Resp: 915775

Ion Ratio Lower Upper

152 100

115 58.0 39.0 116.9

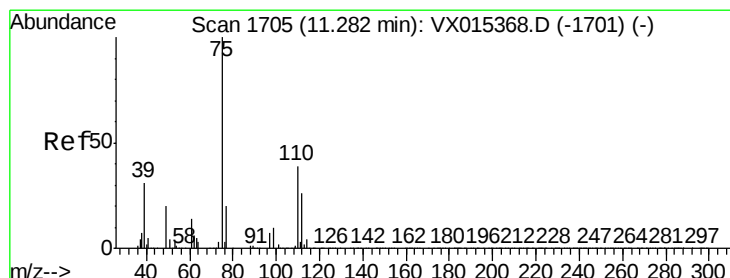
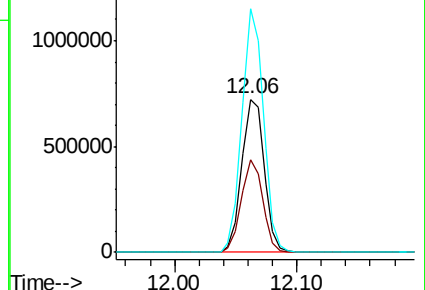
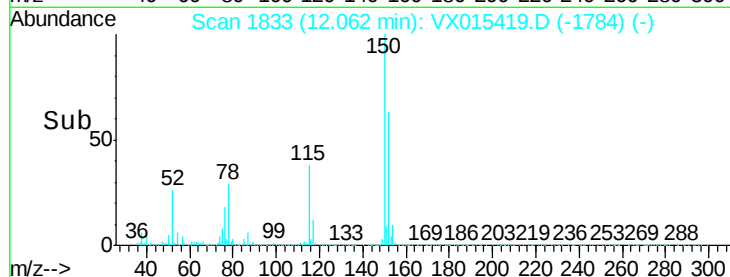
150 152.6 0.0 340.8



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: 25.704 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015419.D

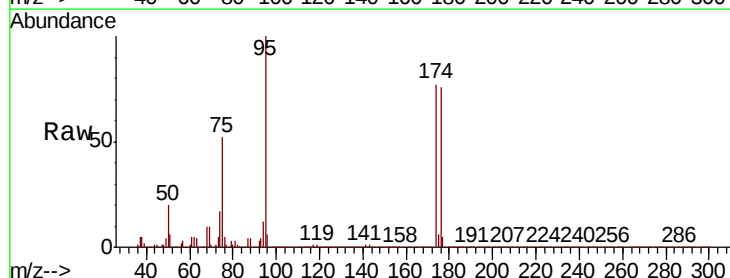
Acq: 28 Mar 2020 06:56

Tgt Ion: 75 Resp: 484056

Ion Ratio Lower Upper

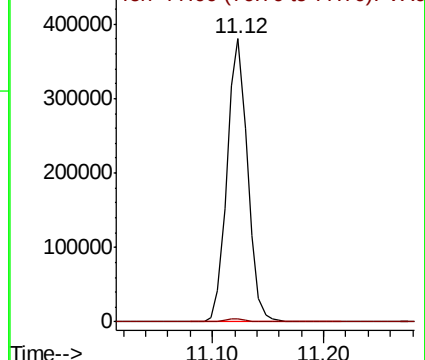
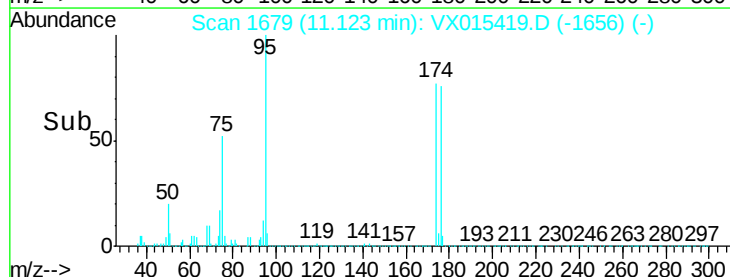
75 100

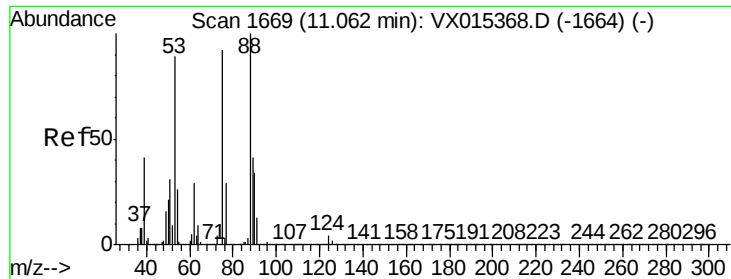
77 1.1 21.2 63.6#



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: 61.675 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015419.D

Acq: 28 Mar 2020 06:56

Instrument :

MSVOA_X

ClientSampleId :

MW-2

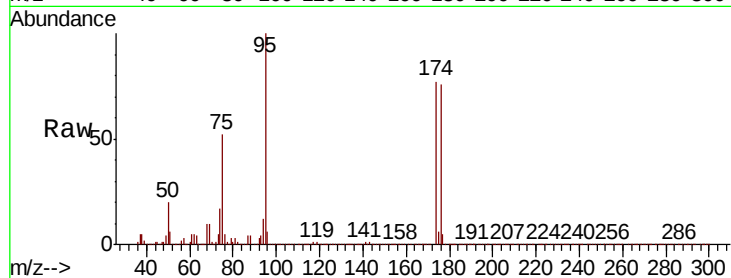
Tot Ion: 75 Resp: 484056

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

89 0.2 36.1 54.1#



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

