

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040620\
 Data File : VX015521.D
 Acq On : 06 Apr 2020 18:27
 Operator : JC/SP
 Sample : L2123-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TR-05-040320

Quant Time: Apr 07 05:05:19 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	1208838	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1974191	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1920677	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	1048718	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	816312	47.88	ug/l	0.00
Spiked Amount			Recovery	=	95.76%	
35) Dibromofluoromethane	5.47	113	614236	48.67	ug/l	0.00
Spiked Amount			Recovery	=	97.34%	
50) Toluene-d8	8.70	98	2366254	50.93	ug/l	0.00
Spiked Amount			Recovery	=	101.86%	
62) 4-Bromofluorobenzene	11.12	95	1061503	56.22	ug/l	0.00
Spiked Amount			Recovery	=	112.44%	

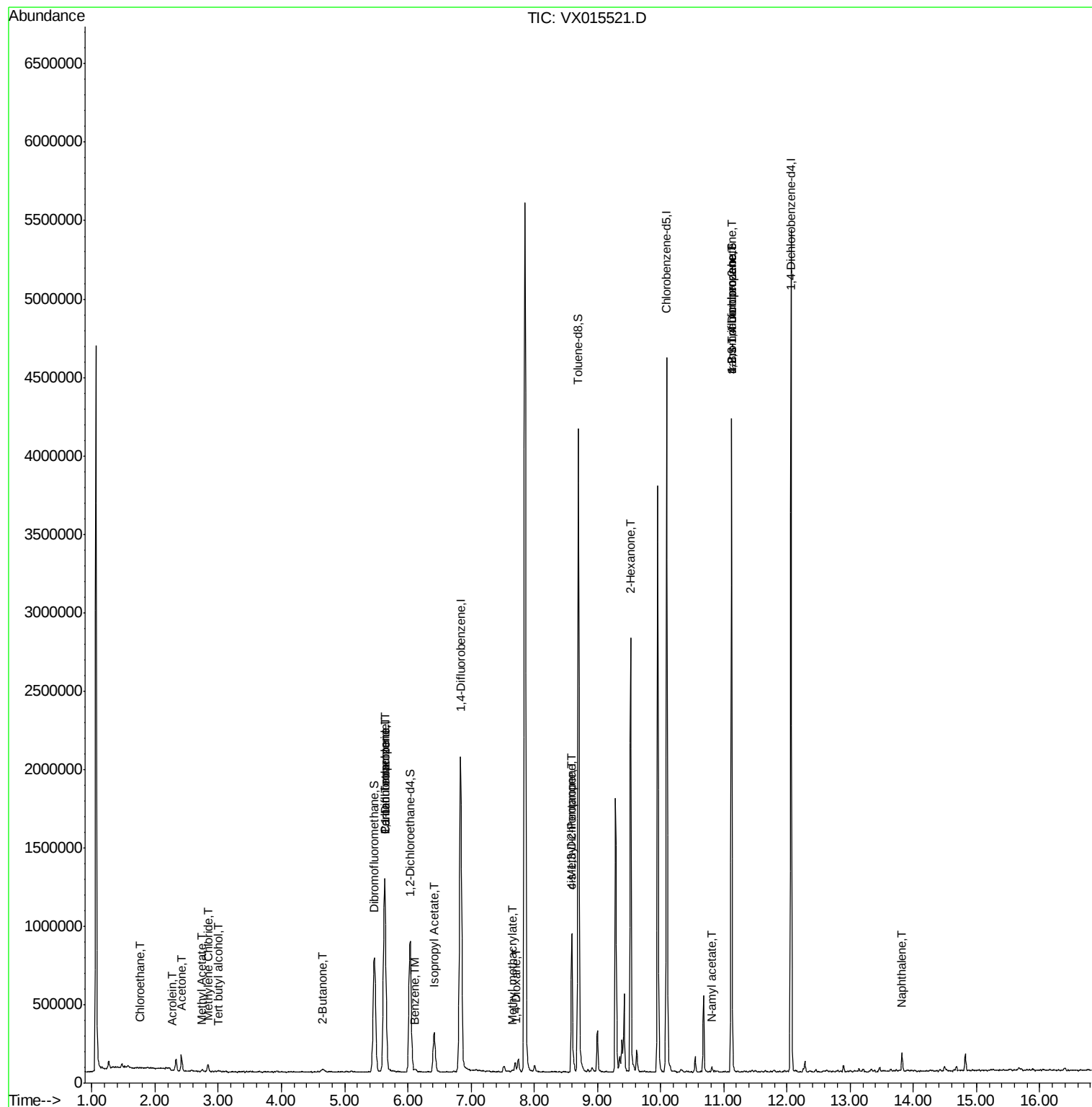
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	308	Below Cal	#	3
6) Chloroethane	1.75	64	2288	0.296	ug/l #	43
11) Tert butyl alcohol	3.00	59	6899	1.691	ug/l #	73
13) Acrolein	2.26	56	1192	0.513	ug/l #	36
16) Acetone	2.42	43	115114	15.716	ug/l	98
18) Methyl Acetate	2.75	43	14773	0.790	ug/l #	71
20) Methylene Chloride	2.84	84	21376	1.562	ug/l	94
25) 2-Butanone	4.65	43	13627	1.157	ug/l #	85
36) 1,1-Dichloropropene	5.64	75	92524	5.087	ug/l #	52
38) Carbon Tetrachloride	5.63	117	115510	5.863	ug/l #	15
40) Benzene	6.11	78	19240	0.361	ug/l #	90
43) Isopropyl Acetate	6.42	43	367320	9.187	ug/l	100
48) Methyl methacrylate	7.66	41	18498	0.926	ug/l #	22
49) 1,4-Dioxane	7.72	88	345	0.926	ug/l #	20
51) 4-Methyl-2-Pentanone	8.60	43	354559	15.648	ug/l #	47
54) cis-1,3-Dichloropropene	8.60	75	143127	5.880	ug/l #	52
59) 2-Hexanone	9.53	43	352128	20.584	ug/l #	51
74) N-amyl acetate	10.81	43	18335	0.480	ug/l #	54
76) 1,2,3-Trichloropropane	11.12	75	551481	25.572	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	551481	61.358	ug/l #	10
95) Naphthalene	13.82	128	69887	0.902	ug/l	98

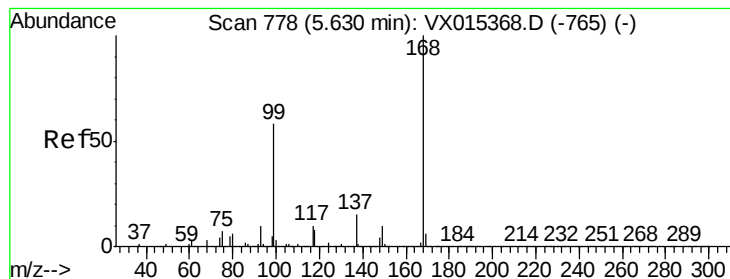
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 07 05:05:19 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
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: VX015521.D

Acq: 06 Apr 2020 18:27

Instrument :

MSVOA_X

ClientSampleId :

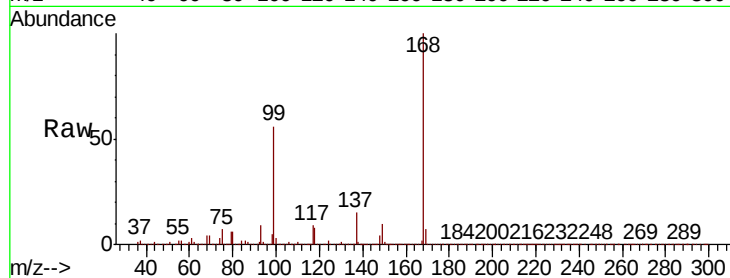
TR-05-040320

Tot Ion:168 Resp: 1208838

Ion Ratio Lower Upper

168 100

99 55.7 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

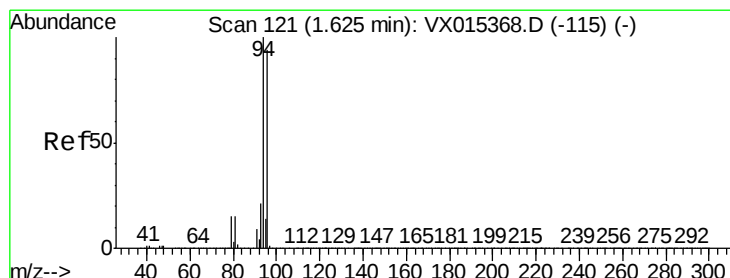
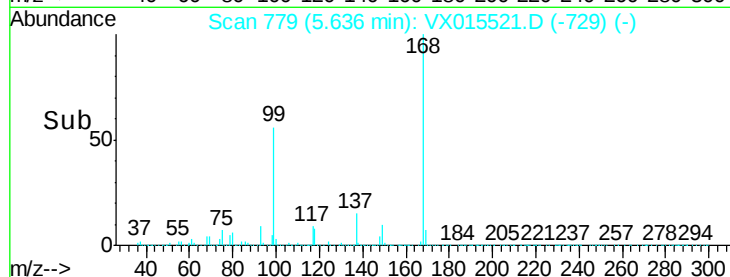
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX015521.D

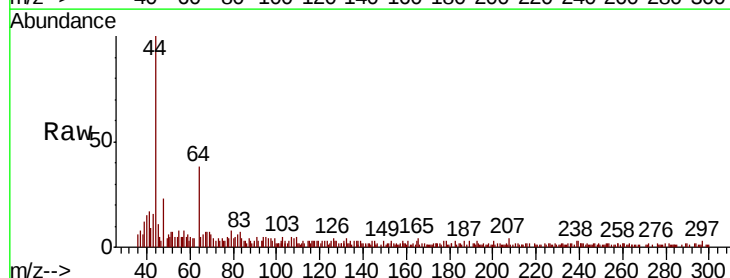
Acq: 06 Apr 2020 18:27

Tgt Ion: 94 Resp: 308

Ion Ratio Lower Upper

94 100

96 0.0 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1000

800

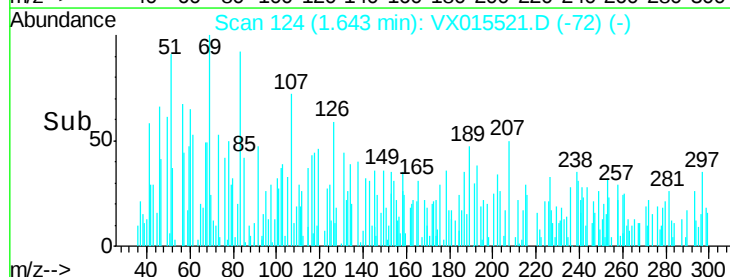
600

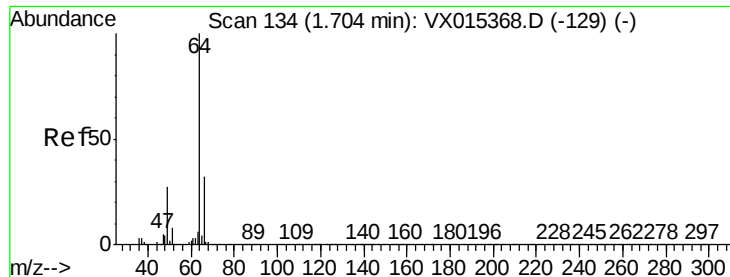
400

200

0

Time-->





#6

Chloroethane

Concen: 0.296 ug/l

RT: 1.75 min Scan# 142

Delta R.T. 0.05 min

Lab File: VX015521.D

Acq: 06 Apr 2020 18:27

Instrument :

MSVOA_X

ClientSampled :

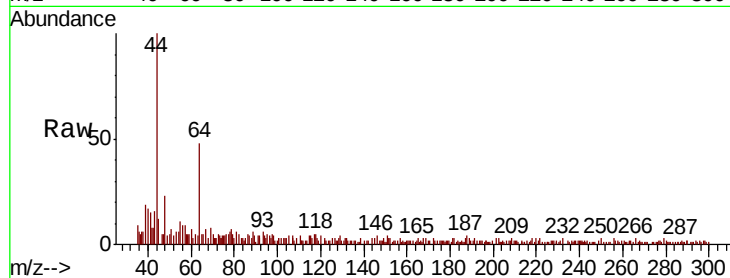
TR-05-040320

Tot Ion: 64 Resp: 2288

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.2#

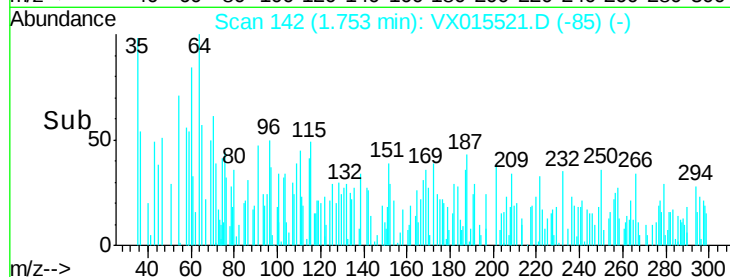


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.75

Time-->



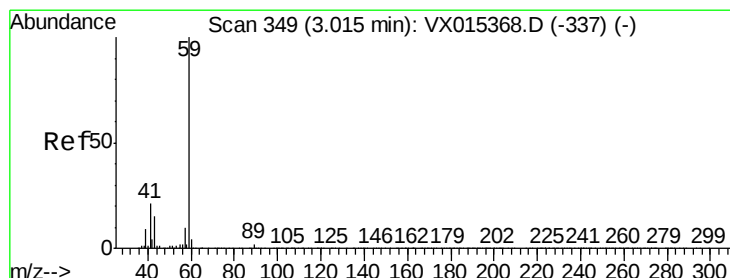
Abundance

Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.75

Time-->



#11

Tert butyl alcohol

Concen: 1.691 ug/l

RT: 3.00 min Scan# 347

Delta R.T. -0.01 min

Lab File: VX015521.D

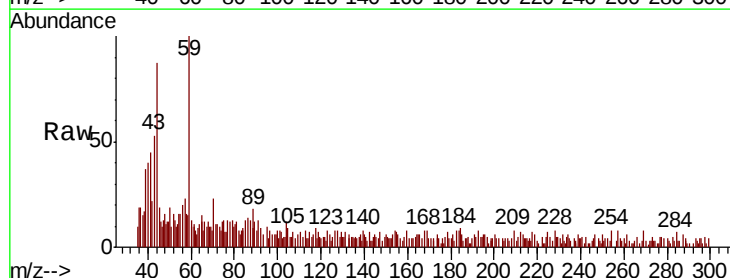
Acq: 06 Apr 2020 18:27

Tgt Ion: 59 Resp: 6899

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#

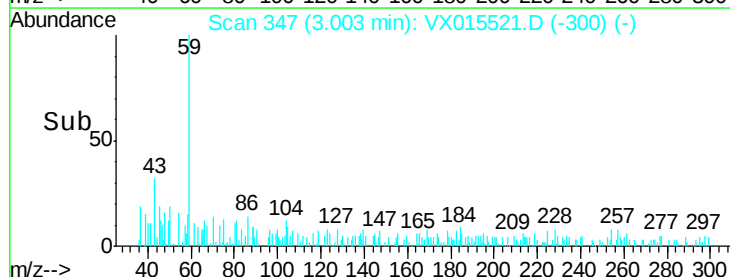


Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.00

Time-->



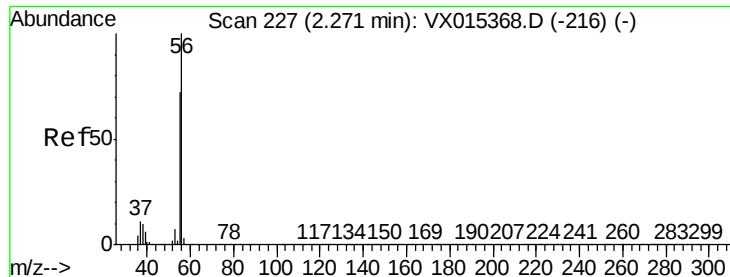
Abundance

Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.00

Time-->



#13

Acrolein

Concen: 0.513 ug/l

RT: 2.26 min Scan# 226

Delta R.T. -0.01 min

Lab File: VX015521.D

Acq: 06 Apr 2020 18:27

Instrument :

MSVOA_X

ClientSampleId :

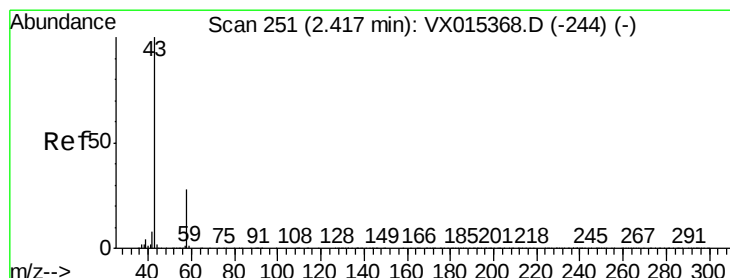
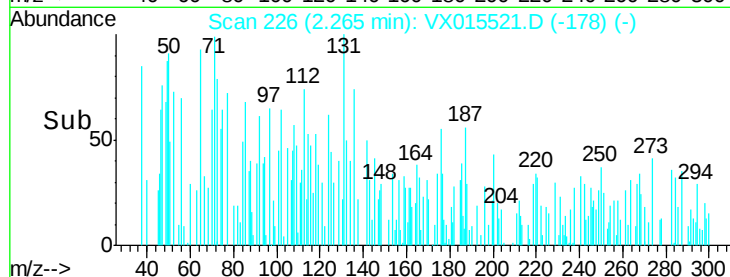
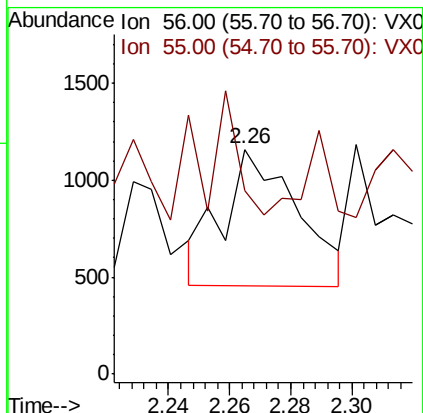
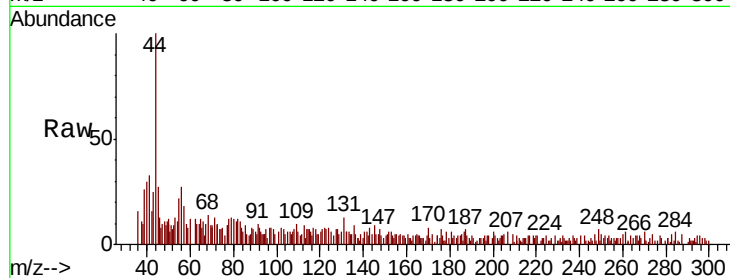
TR-05-040320

Tot Ion: 56 Resp: 1192

Ion Ratio Lower Upper

56 100

55 18.2 57.0 85.4#



#16

Acetone

Concen: 15.716 ug/l

RT: 2.42 min Scan# 251

Delta R.T. -0.00 min

Lab File: VX015521.D

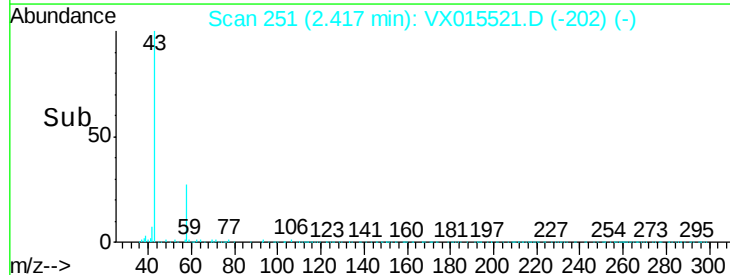
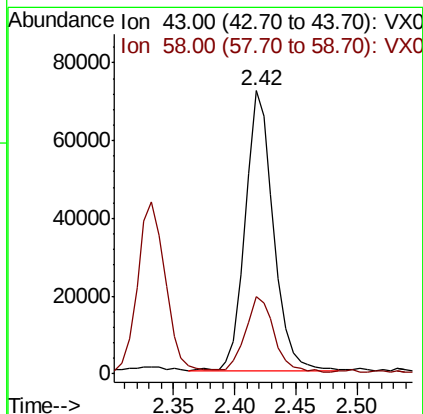
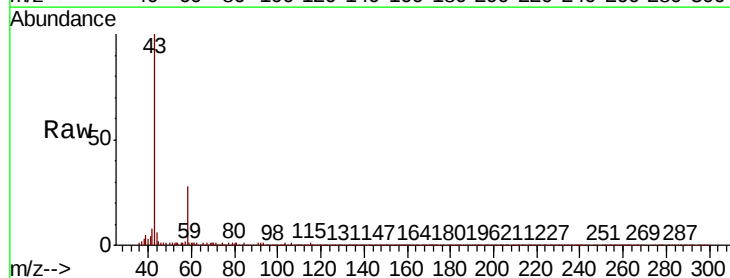
Acq: 06 Apr 2020 18:27

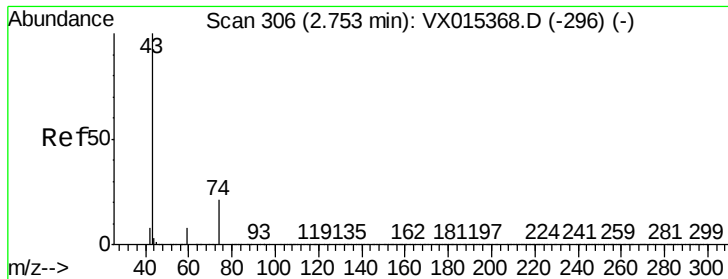
Tgt Ion: 43 Resp: 115114

Ion Ratio Lower Upper

43 100

58 26.8 22.1 33.1

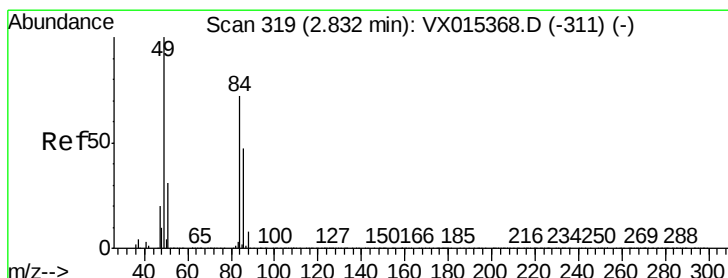
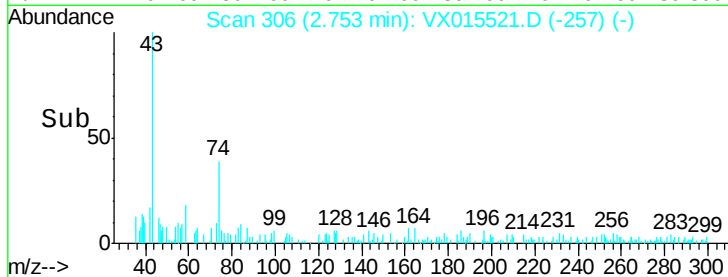
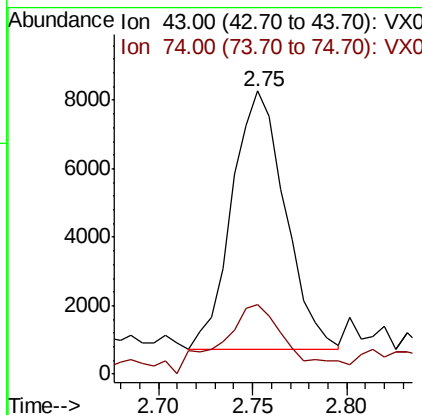
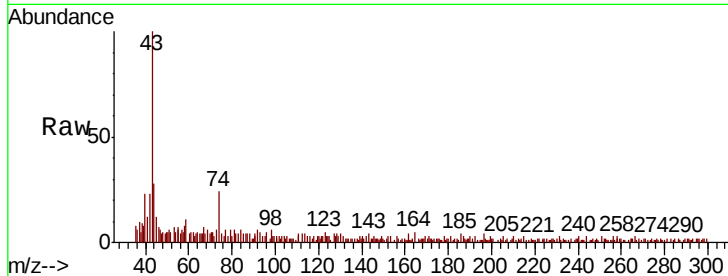




#18
Methyl Acetate
Concen: 0.790 ug/l
RT: 2.75 min Scan# 306
Delta R.T. -0.00 min
Lab File: VX015521.D
Acq: 06 Apr 2020 18:27

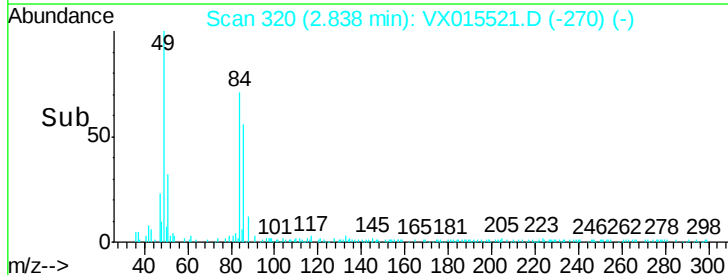
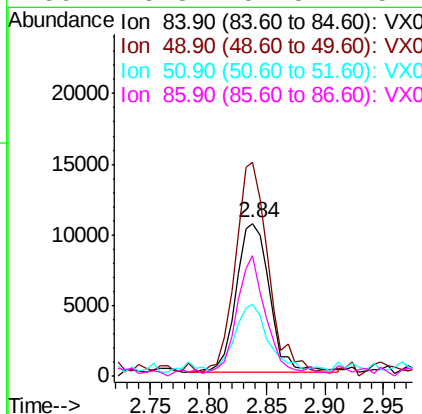
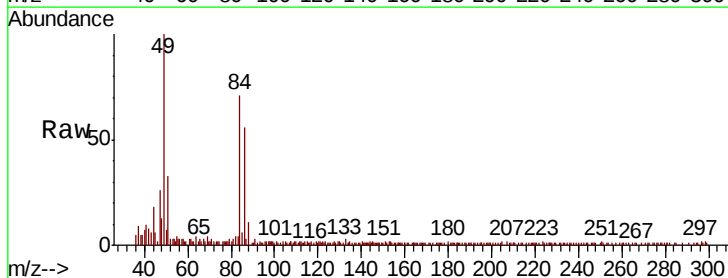
Instrument :
MSVOA_X
ClientSampleId :
TR-05-040320

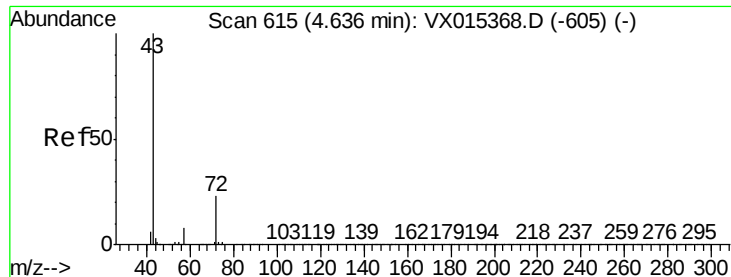
Tot Ion: 43 Resp: 14773
Ion Ratio Lower Upper
43 100
74 34.1 16.5 24.7#



#20
Methylene Chloride
Concen: 1.562 ug/l
RT: 2.84 min Scan# 320
Delta R.T. 0.01 min
Lab File: VX015521.D
Acq: 06 Apr 2020 18:27

Tgt Ion: 84 Resp: 21376
Ion Ratio Lower Upper
84 100
49 138.2 111.3 166.9
51 38.8 34.0 51.0
86 78.3 52.5 78.7





#25

2-Butanone

Concen: 1.157 ug/l

RT: 4.65 min Scan# 617

Delta R.T. 0.01 min

Lab File: VX015521.D

Acq: 06 Apr 2020 18:27

Instrument :

MSVOA_X

ClientSampleId :

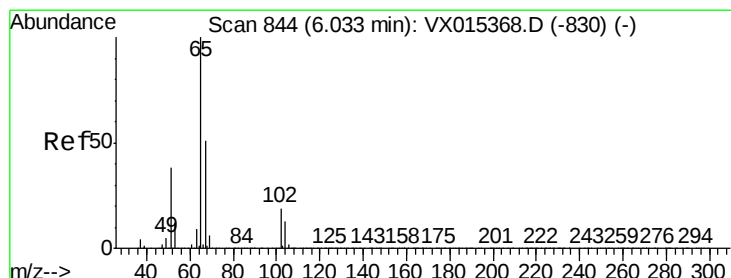
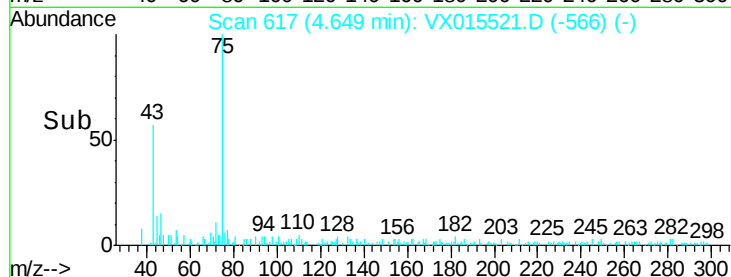
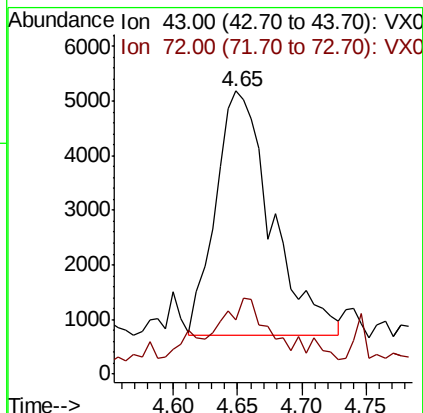
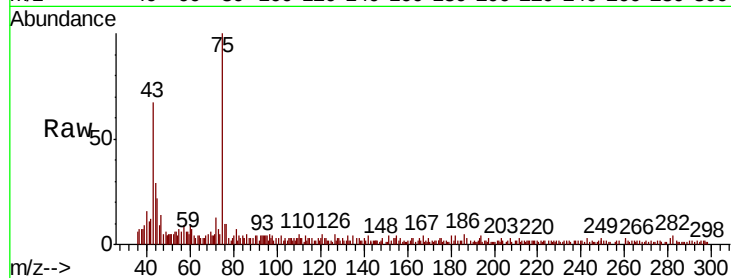
TR-05-040320

Tot Ion: 43 Resp: 13627

Ion Ratio Lower Upper

43 100

72 16.5 19.0 28.4#



#33

1,2-Dichloroethane-d4

Concen: 47.879 ug/l

RT: 6.04 min Scan# 845

Delta R.T. 0.01 min

Lab File: VX015521.D

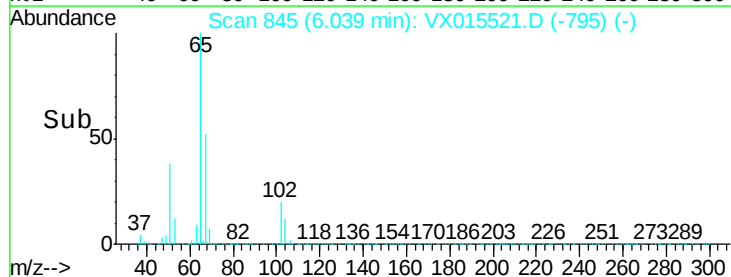
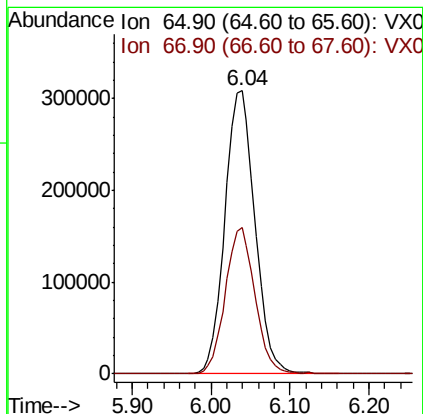
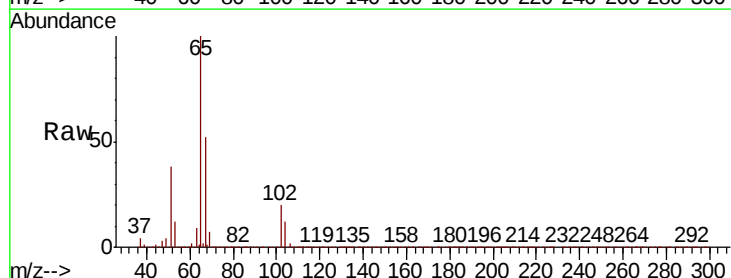
Acq: 06 Apr 2020 18:27

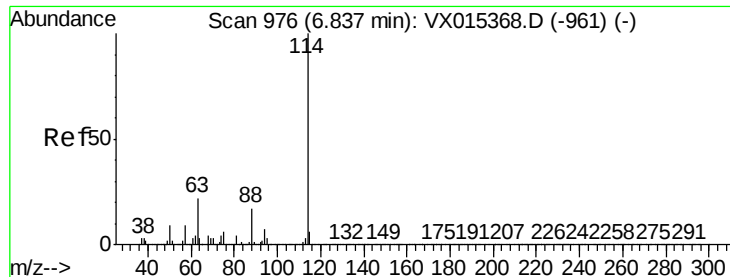
Tgt Ion: 65 Resp: 816312

Ion Ratio Lower Upper

65 100

67 50.7 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: VX015521.D

Acq: 06 Apr 2020 18:27

Instrument :

MSVOA_X

ClientSampled :

TR-05-040320

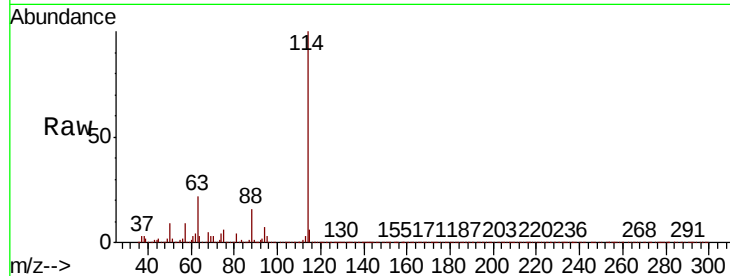
Tot Ion:114 Resp: 1974191

Ion Ratio Lower Upper

114 100

63 21.9 0.0 44.2

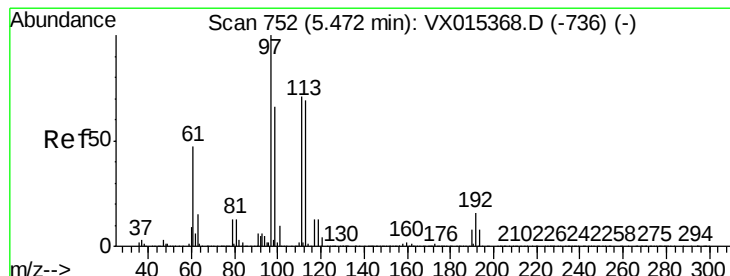
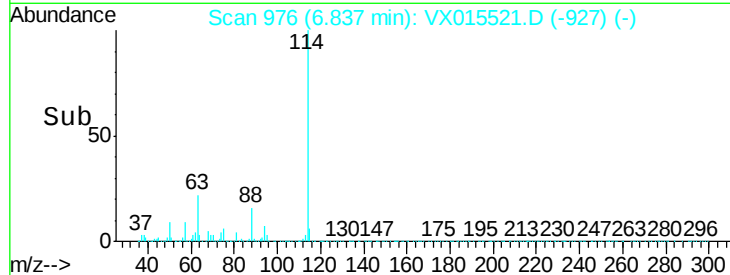
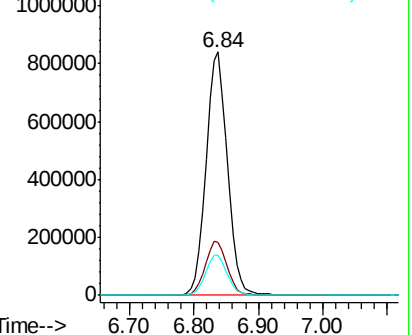
88 16.4 0.0 33.8



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: 48.673 ug/l

RT: 5.47 min Scan# 752

Delta R.T. -0.00 min

Lab File: VX015521.D

Acq: 06 Apr 2020 18:27

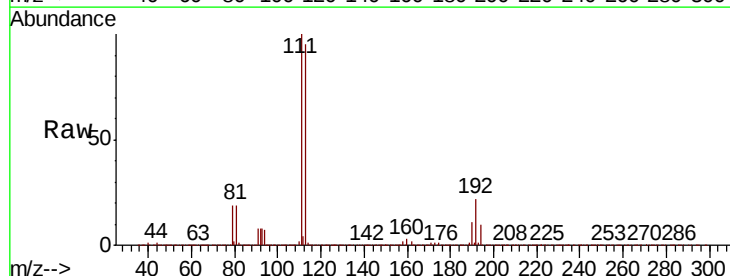
Tgt Ion:113 Resp: 614236

Ion Ratio Lower Upper

113 100

111 104.4 81.5 122.3

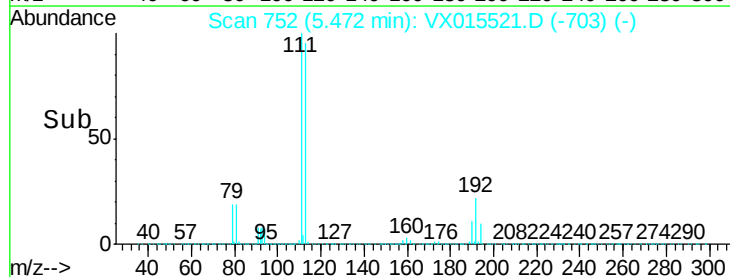
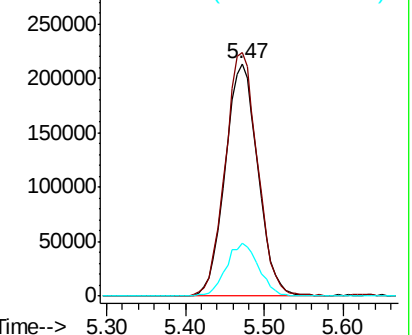
192 22.6 17.8 26.6

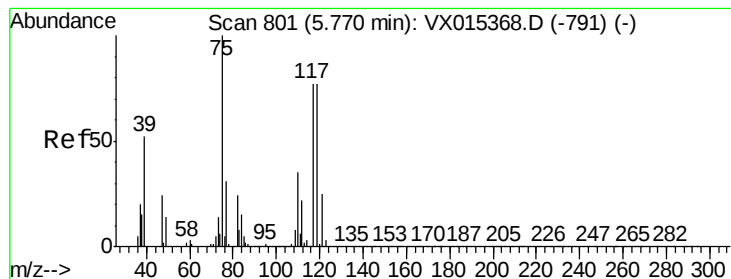


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.087 ug/l

RT: 5.64 min Scan# 779

Delta R.T. -0.13 min

Lab File: VX015521.D

Acq: 06 Apr 2020 18:27

Instrument :

MSVOA_X

ClientSampleId :

TR-05-040320

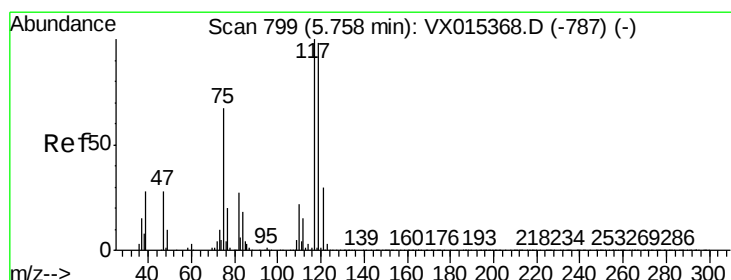
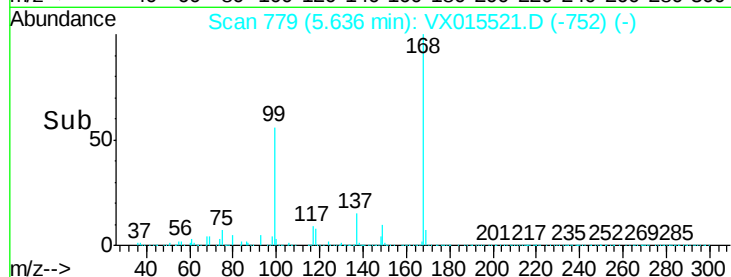
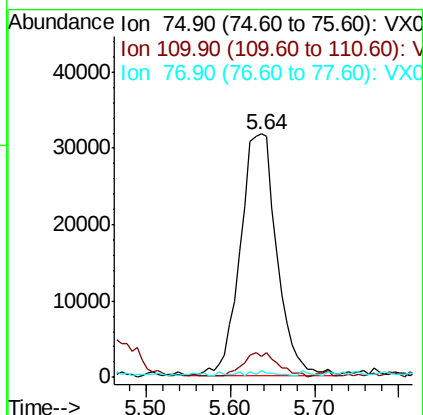
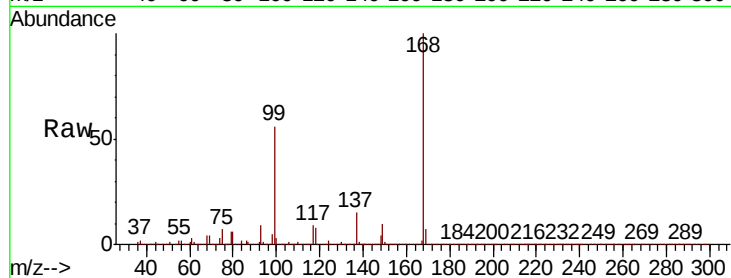
Tot Ion: 75 Resp: 92524

Ion Ratio Lower Upper

75 100

110 10.1 17.1 51.3#

77 0.9 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 5.863 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.13 min

Lab File: VX015521.D

Acq: 06 Apr 2020 18:27

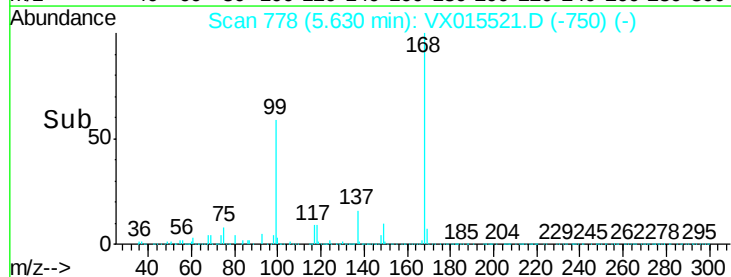
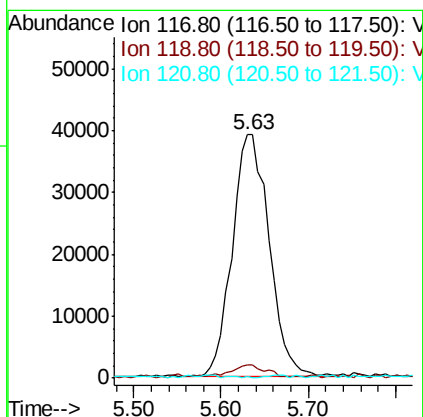
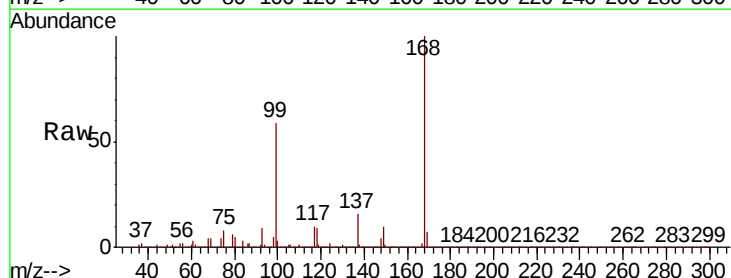
Tgt Ion: 117 Resp: 115510

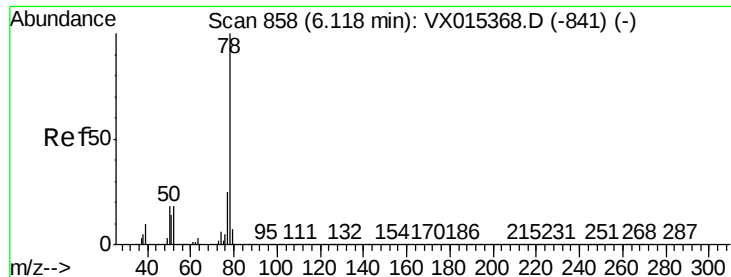
Ion Ratio Lower Upper

117 100

119 4.8 78.0 117.0#

121 0.2 23.8 35.8#





#40

Benzene

Concen: 0.361 ug/l

RT: 6.11 min Scan# 857

Delta R.T. -0.01 min

Lab File: VX015521.D

Acq: 06 Apr 2020 18:27

Instrument :

MSVOA_X

ClientSampleId :

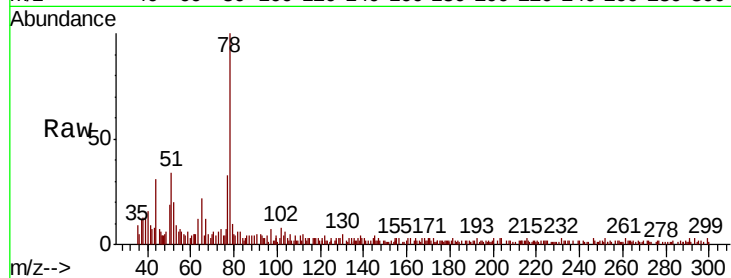
TR-05-040320

Tot Ion: 78 Resp: 19240

Ion Ratio Lower Upper

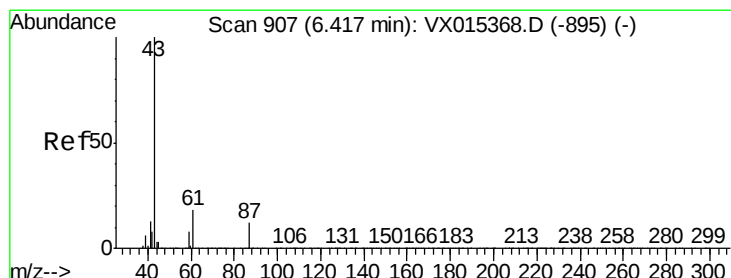
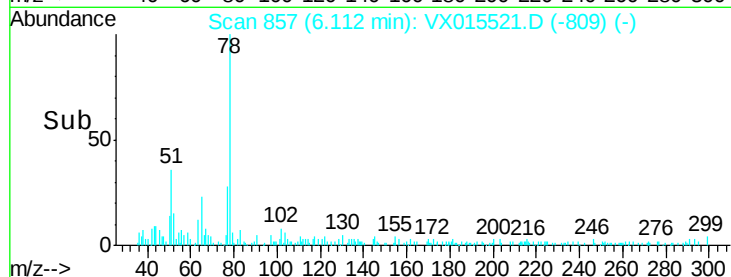
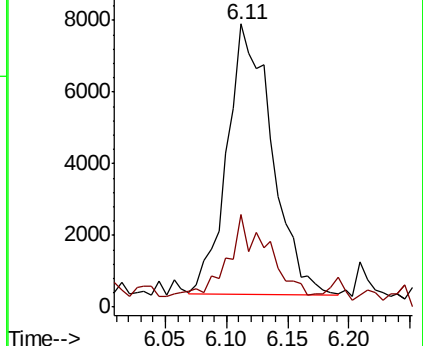
78 100

77 29.9 19.8 29.8#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#43

Isopropyl Acetate

Concen: 9.187 ug/l

RT: 6.42 min Scan# 907

Delta R.T. -0.00 min

Lab File: VX015521.D

Acq: 06 Apr 2020 18:27

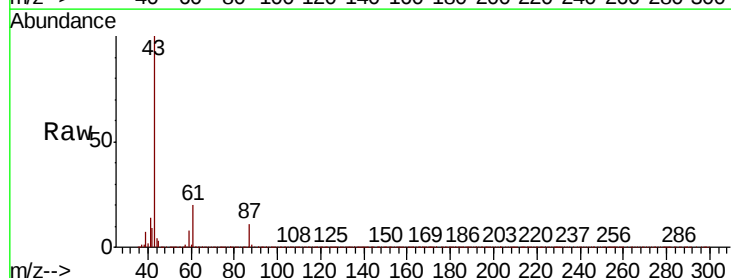
Tgt Ion: 43 Resp: 367320

Ion Ratio Lower Upper

43 100

61 18.3 14.8 22.2

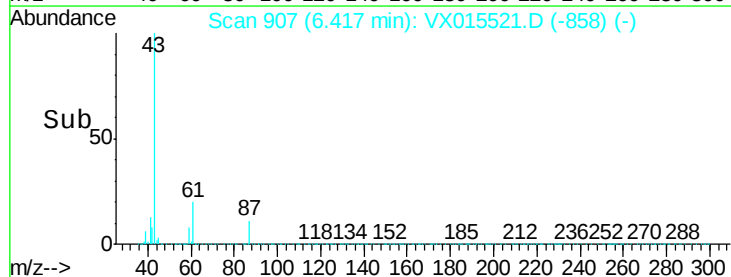
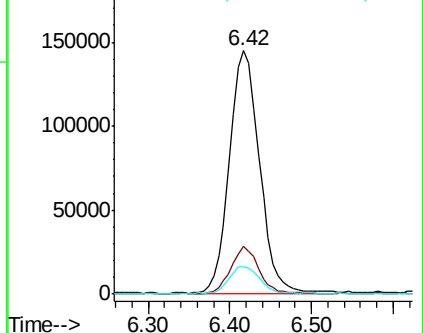
87 11.6 9.4 14.0

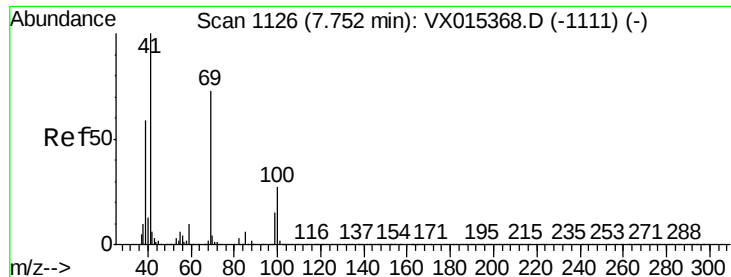


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

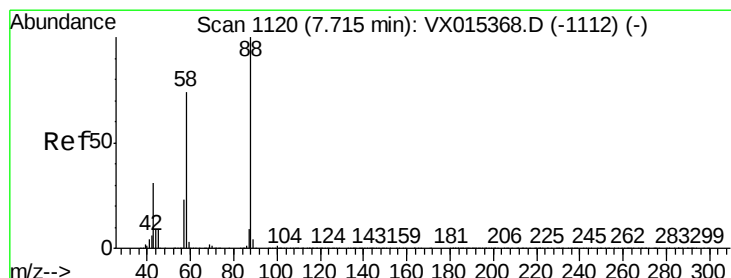
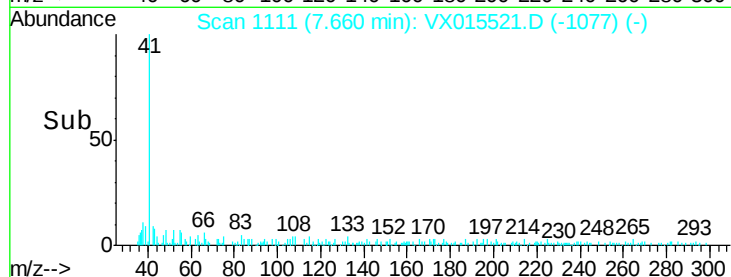
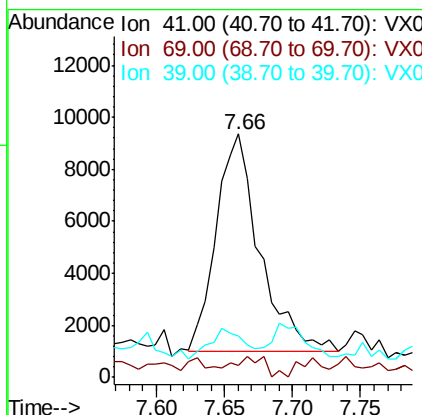
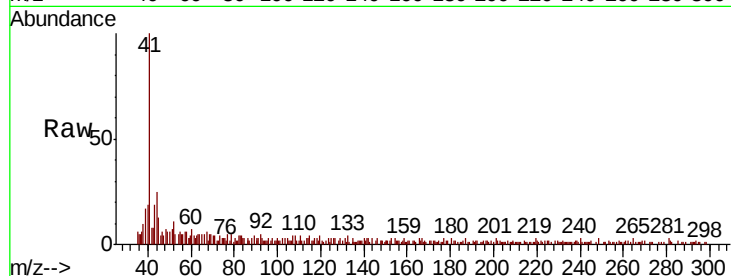




#48
Methvl methacrylate
Concen: 0.926 ug/l
RT: 7.66 min Scan# 1111
Delta R.T. -0.09 min
Lab File: VX015521.D
Acq: 06 Apr 2020 18:27

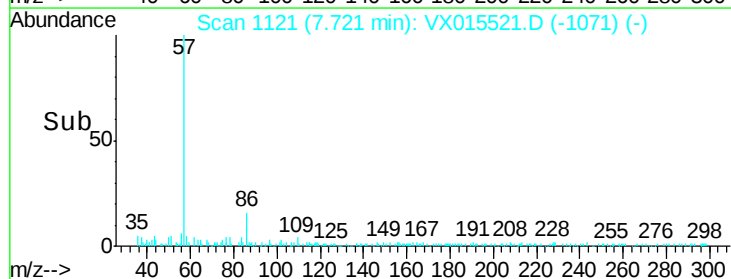
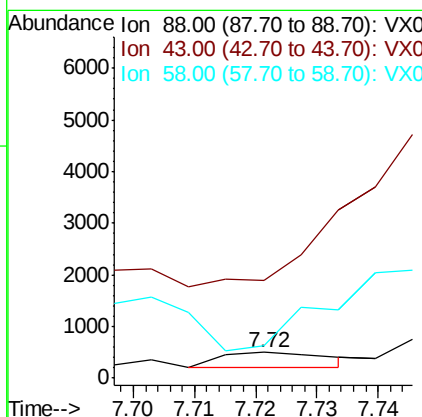
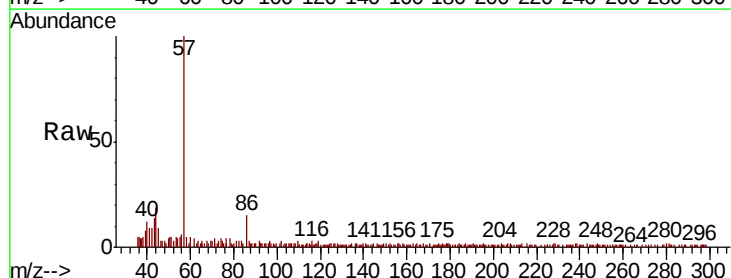
Instrument :
MSVOA_X
ClientSampleId :
TR-05-040320

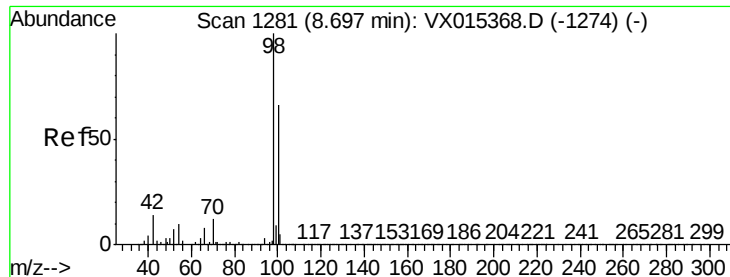
Tot Ion: 41 Resp: 18498
Ion Ratio Lower Upper
41 100
69 6.7 56.7 85.1#
39 0.0 46.5 69.7#



#49
1,4-Dioxane
Concen: 0.926 ug/l
RT: 7.72 min Scan# 1121
Delta R.T. 0.01 min
Lab File: VX015521.D
Acq: 06 Apr 2020 18:27

Tgt Ion: 88 Resp: 345
Ion Ratio Lower Upper
88 100
43 0.0 30.1 45.1#
58 0.0 60.6 90.8#





#50

Toluene-d8

Concen: 50.929 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VX015521.D

Acq: 06 Apr 2020 18:27

Instrument :

MSVOA_X

ClientSampleId :

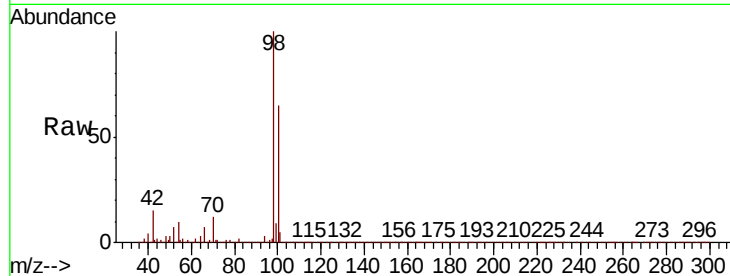
TR-05-040320

Tot Ion: 98 Resp: 2366254

Ion Ratio Lower Upper

98 100

100 66.2 53.5 80.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

1500000

8.70

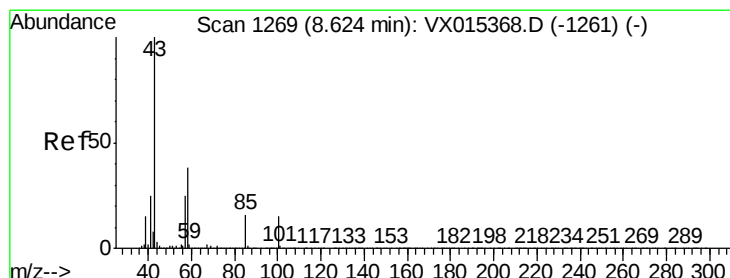
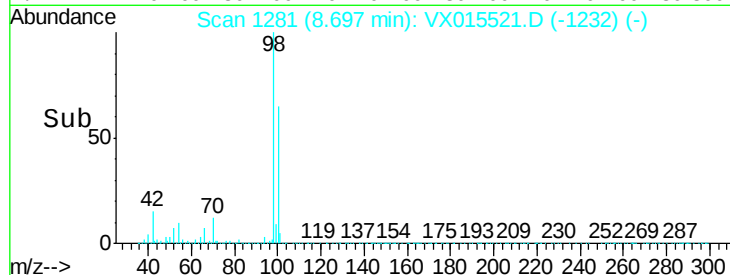
1000000

500000

0

Time-->

8.60 8.70 8.80 8.90



#51

4-Methyl-2-Pentanone

Concen: 15.648 ug/l

RT: 8.60 min Scan# 1265

Delta R.T. -0.02 min

Lab File: VX015521.D

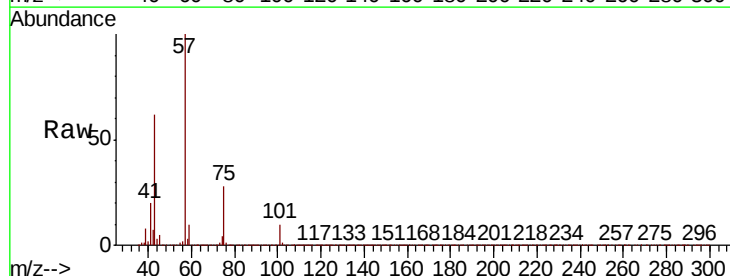
Acq: 06 Apr 2020 18:27

Tgt Ion: 43 Resp: 354559

Ion Ratio Lower Upper

43 100

58 5.4 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

200000

150000

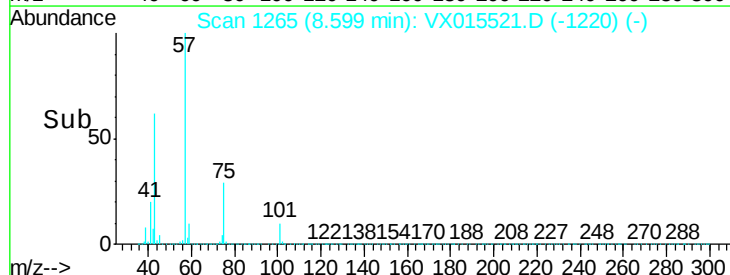
100000

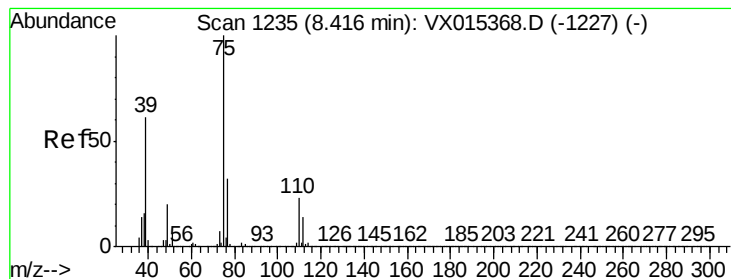
50000

0

Time-->

8.50 8.55 8.60 8.65 8.70





#54

cis-1,3-Dichloropropene

Concen: 5.880 ug/l

RT: 8.60 min Scan# 1265

Delta R.T. 0.18 min

Lab File: VX015521.D

Acq: 06 Apr 2020 18:27

Instrument :

MSVOA_X

ClientSampleId :

TR-05-040320

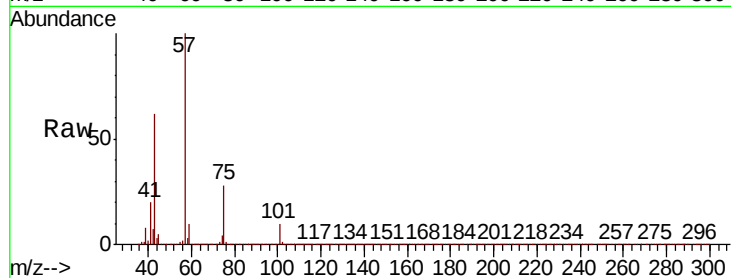
Tot Ion: 75 Resp: 143127

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.6#

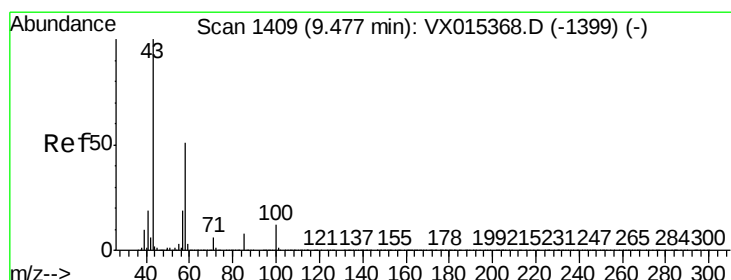
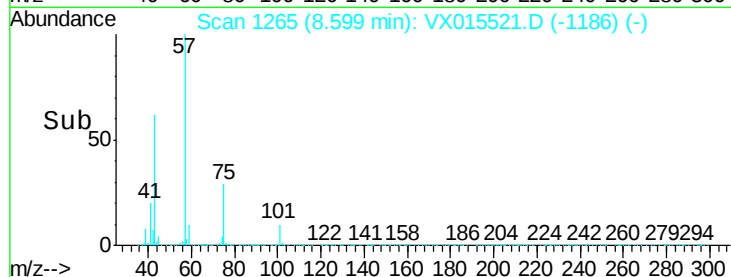
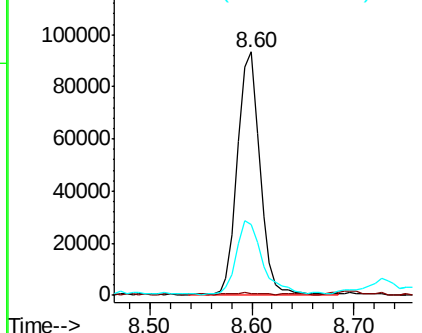
39 28.3 49.0 73.4#



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: 20.584 ug/l

RT: 9.53 min Scan# 1417

Delta R.T. 0.05 min

Lab File: VX015521.D

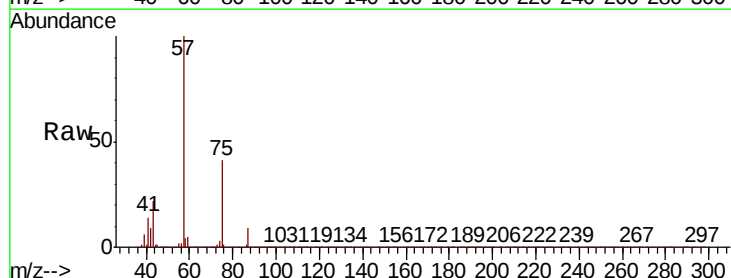
Acq: 06 Apr 2020 18:27

Tgt Ion: 43 Resp: 352128

Ion Ratio Lower Upper

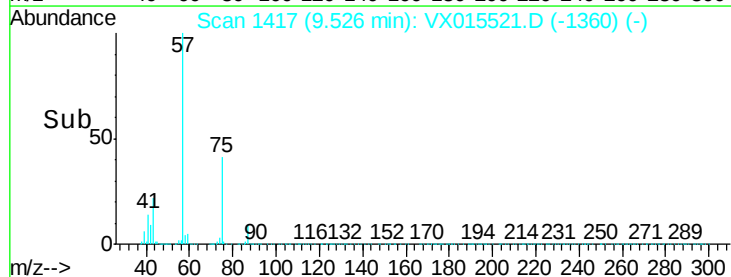
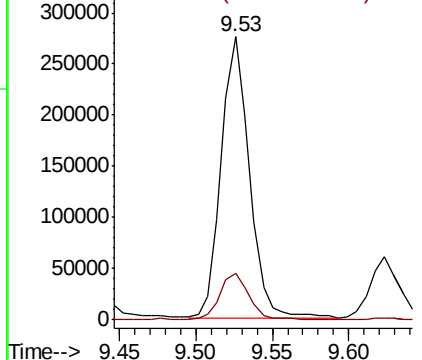
43 100

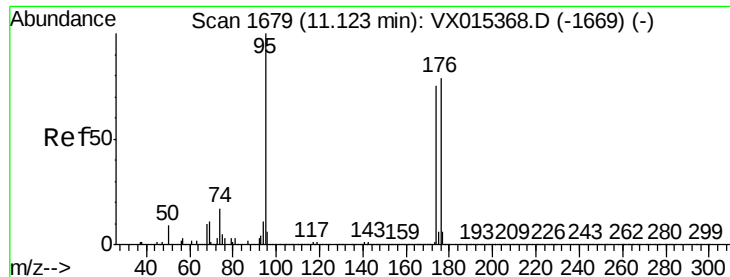
58 17.0 25.6 76.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 56.217 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VX015521.D

Acq: 06 Apr 2020 18:27

Instrument :

MSVOA_X

ClientSampled :

TR-05-040320

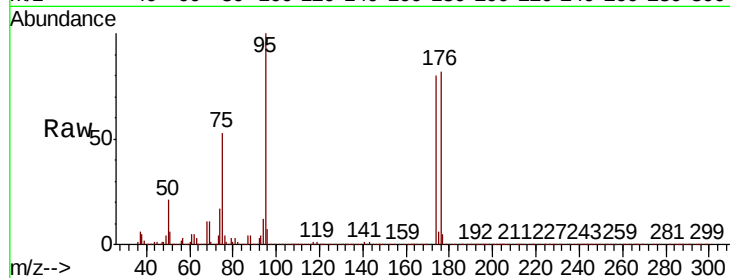
Tot Ion: 95 Resp: 1061503

Ion Ratio Lower Upper

95 100

174 79.2 0.0 158.6

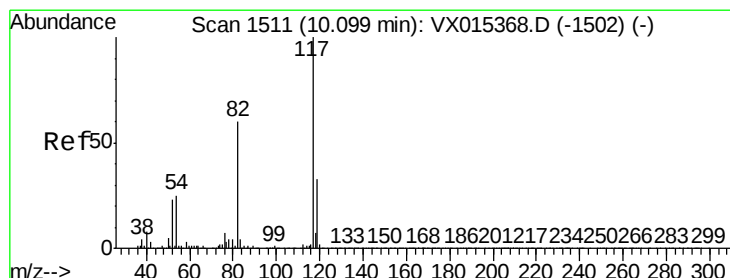
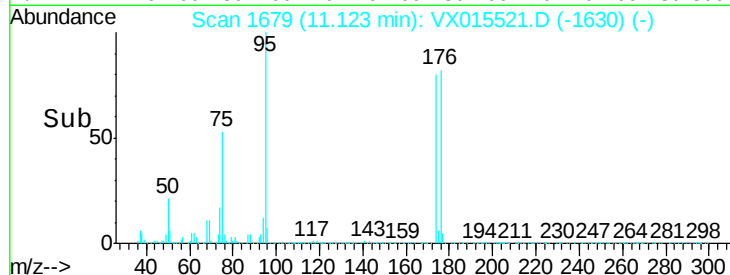
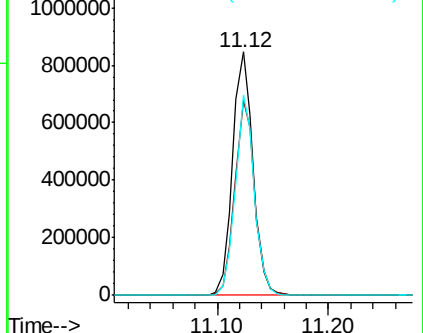
176 77.5 0.0 159.0



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: VX015521.D

Acq: 06 Apr 2020 18:27

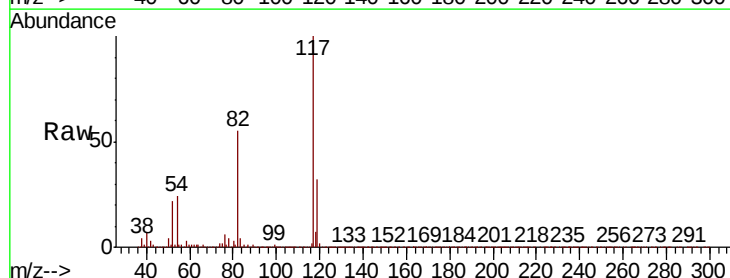
Tgt Ion: 117 Resp: 1920677

Ion Ratio Lower Upper

117 100

82 54.6 47.8 71.8

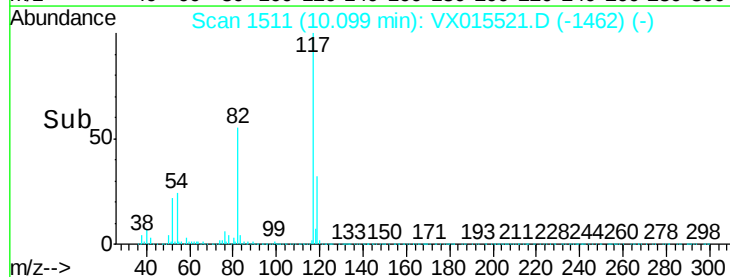
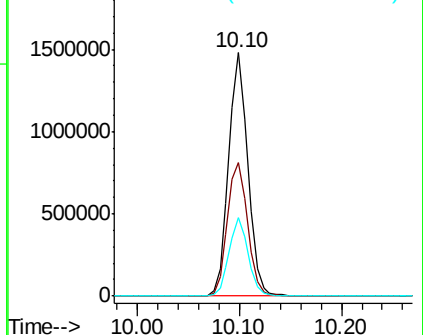
119 32.5 26.8 40.2

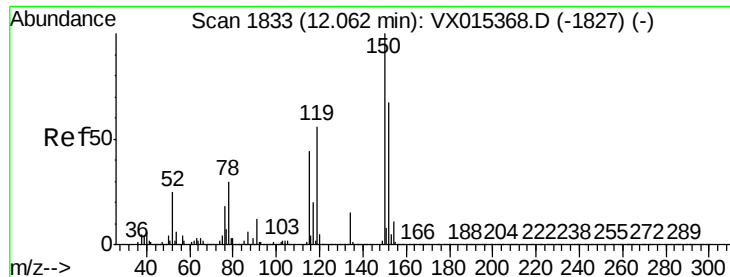


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.07 min Scan# 1834

Delta R.T. 0.01 min

Lab File: VX015521.D

Acq: 06 Apr 2020 18:27

Instrument :

MSVOA_X

ClientSampleId :

TR-05-040320

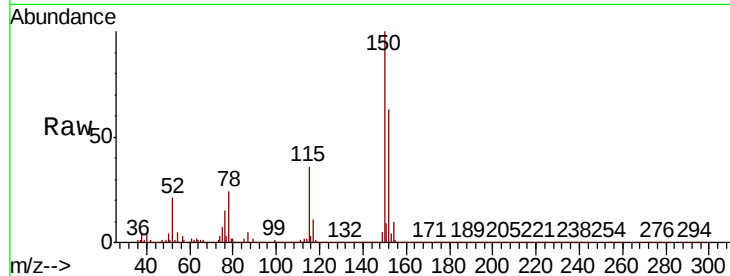
Tot Ion:152 Resp: 1048718

Ion Ratio Lower Upper

152 100

115 60.9 39.0 116.9

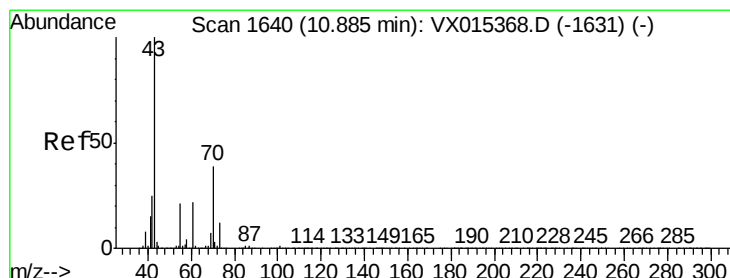
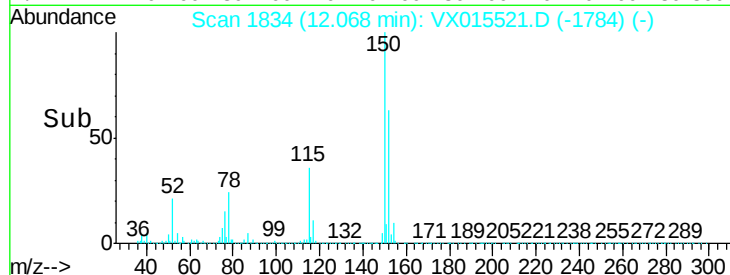
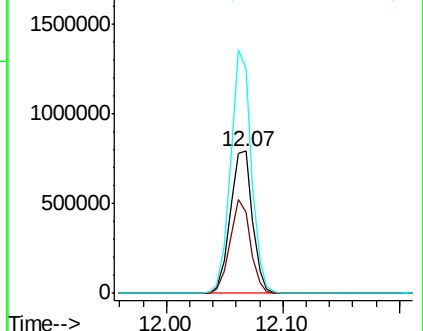
150 160.2 0.0 340.8



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



#74

N-ethyl acetate

Concen: 0.480 ug/l

RT: 10.81 min Scan# 1628

Delta R.T. -0.07 min

Lab File: VX015521.D

Acq: 06 Apr 2020 18:27

Tgt Ion: 43 Resp: 18335

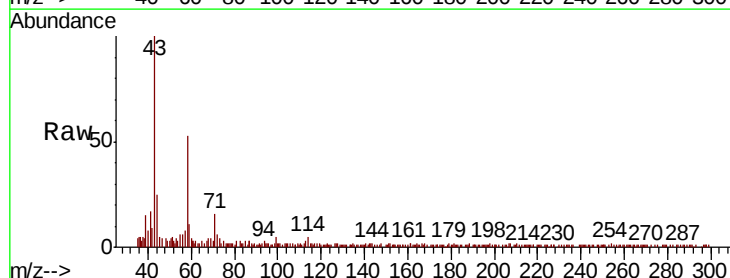
Ion Ratio Lower Upper

43 100

70 10.5 30.2 45.4#

55 0.0 16.8 25.2#

61 0.0 18.2 27.2#

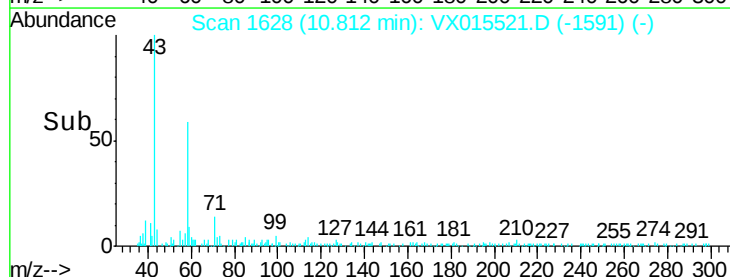
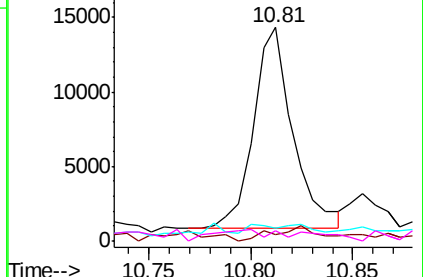


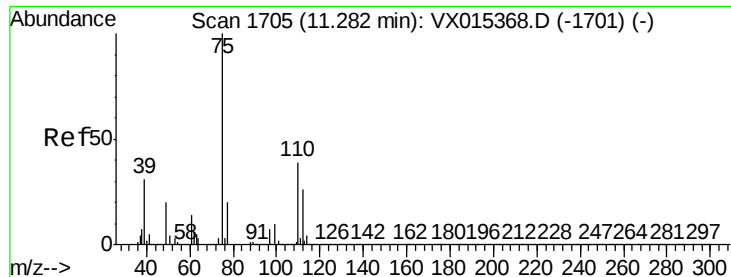
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 25.572 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015521.D

Acq: 06 Apr 2020 18:27

Instrument :

MSVOA_X

ClientSampleId :

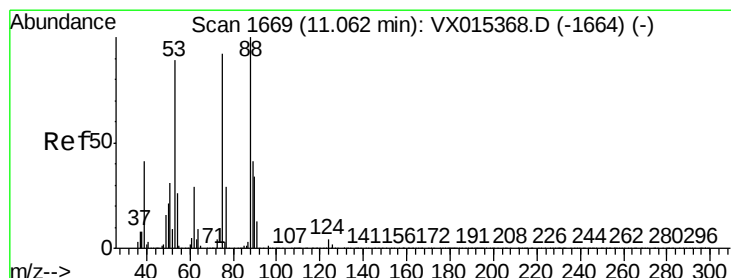
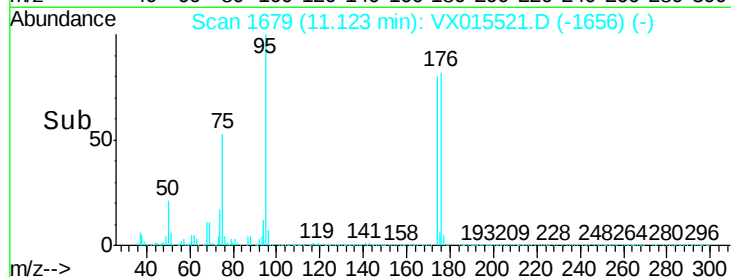
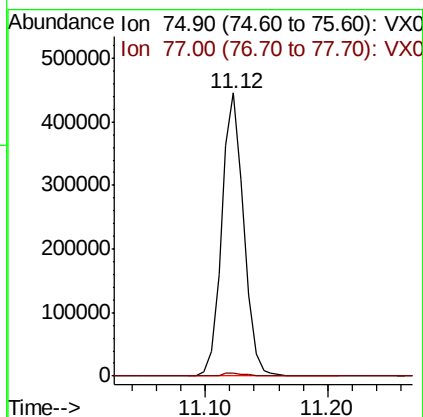
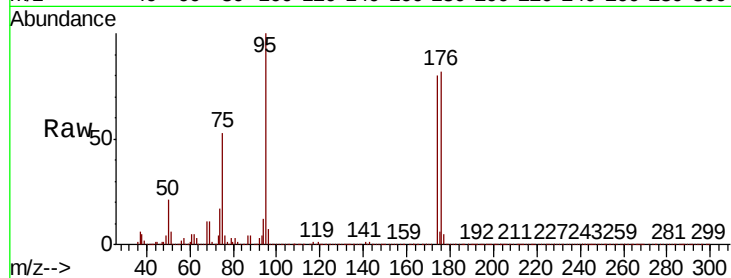
TR-05-040320

Tot Ion: 75 Resp: 551481

Ion Ratio Lower Upper

75 100

77 1.4 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.358 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015521.D

Acq: 06 Apr 2020 18:27

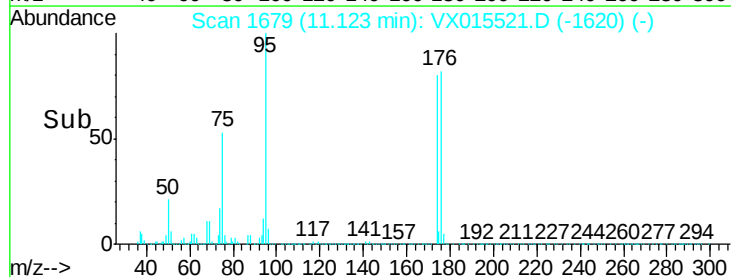
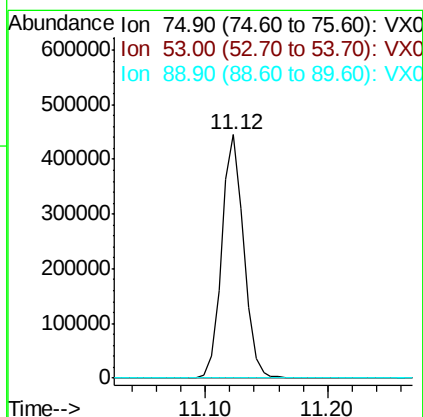
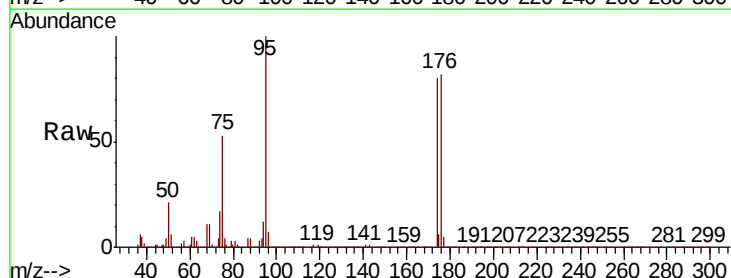
Tgt Ion: 75 Resp: 551481

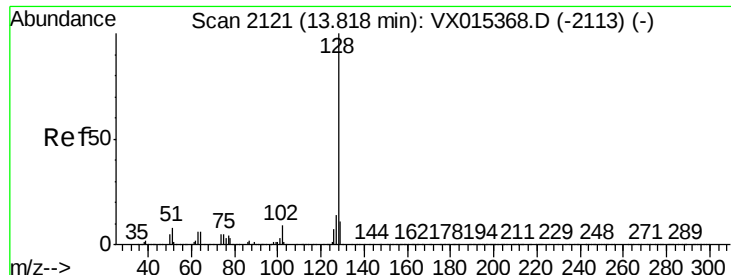
Ion Ratio Lower Upper

75 100

53 0.0 80.1 120.1#

89 0.0 36.1 54.1#





#95

Naphthalene

Concen: 0.902 ug/l

RT: 13.82 min Scan# 2121

Delta R.T. -0.00 min

Lab File: VX015521.D

Acq: 06 Apr 2020 18:27

Instrument :

MSVOA_X

ClientSampleId :

TR-05-040320

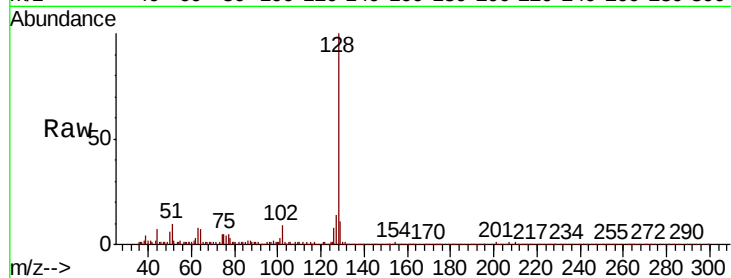
Tot Ion:128 Resp: 69887

Ion Ratio Lower Upper

128 100

127 14.1 10.6 15.8

129 11.3 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

