

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040220\
 Data File : VX015496.D
 Acq On : 02 Apr 2020 20:39
 Operator : JC/SP
 Sample : L2107-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 03 08:05:16 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	5.63	168	1092184	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	1791192	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1713849	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	919294	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.04	65	748768	48.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.22%	
35) Dibromofluoromethane	5.47	113	559580	48.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.74%	
50) Toluene-d8	8.70	98	2158433	51.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.40%	
62) 4-Bromofluorobenzene	11.12	95	935744	54.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.24%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.39	62	187985	16.707	ug/l	96
5) Bromomethane	1.66	94	1998	Below Cal	#	5
7) Trichlorofluoromethane	1.92	101	95778	6.347	ug/l	98
11) Tert butyl alcohol	3.01	59	83100	22.538	ug/l	98
12) 1,1-Dichloroethene	2.36	96	32018	3.105	ug/l	95
13) Acrolein	2.28	56	502	0.239	ug/l #	58
16) Acetone	2.42	43	70845	10.705	ug/l	97
17) Carbon Disulfide	2.55	76	9452	0.300	ug/l #	90
18) Methyl Acetate	2.75	43	13471	0.798	ug/l	99
19) Methyl tert-butyl Ether	3.17	73	108945	2.724	ug/l	96
20) Methylene Chloride	2.84	84	23208	1.877	ug/l	95
21) trans-1,2-Dichloroethene	3.15	96	262291	22.920	ug/l	92
25) 2-Butanone	4.65	43	28280	2.657	ug/l #	90
27) cis-1,2-Dichloroethene	4.57	96	4818381	363.934	ug/l	91
31) Cyclohexane	5.56	56	10828	0.555	ug/l #	76
36) 1,1-Dichloropropene	5.64	75	81840	4.959	ug/l #	52
38) Carbon Tetrachloride	5.63	117	111906	6.260	ug/l #	13
39) Methylcyclohexane	7.44	83	5891	0.310	ug/l #	77
40) Benzene	6.12	78	13647	0.282	ug/l #	80
43) Isopropyl Acetate	6.42	43	220621	6.082	ug/l	99
44) Trichloroethene	7.19	130	1813265	137.528	ug/l	94
48) Methyl methacrylate	7.65	41	14759	0.815	ug/l #	18
49) 1,4-Dioxane	7.70	88	161	0.476	ug/l #	1
52) Toluene	8.77	92	9427	0.316	ug/l	80
54) cis-1,3-Dichloropropene	8.60	75	38831	1.758	ug/l #	53
59) 2-Hexanone	9.42	43	53434	3.443	ug/l #	28
76) 1,2,3-Trichloropropane	11.12	75	483160	25.558	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	483160	61.325	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.00 min

Lab File: VX015496.D

Acq: 02 Apr 2020 20:39

Instrument :

MSVOA_X

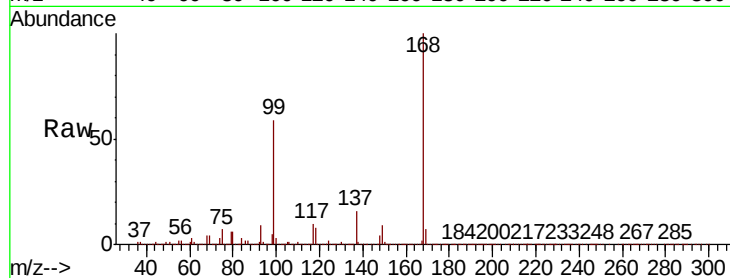
ClientSampleId :

Tot Ion:168 Resp: 1092184

Ion Ratio Lower Upper

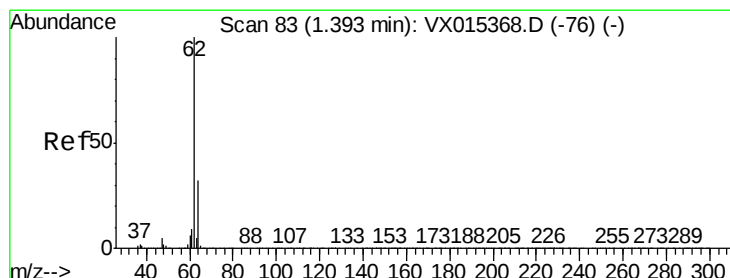
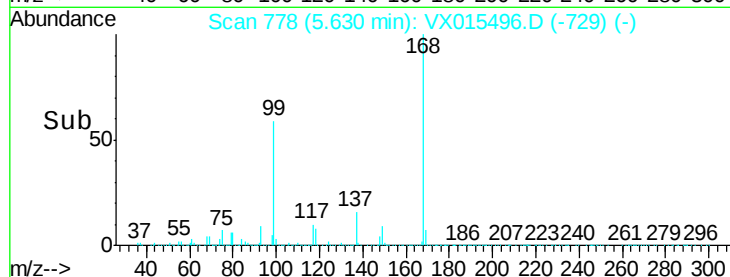
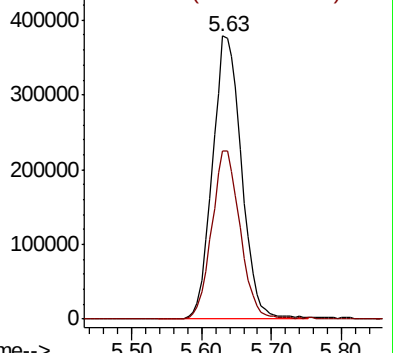
168 100

99 59.1 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 16.707 ug/l

RT: 1.39 min Scan# 83

Delta R.T. -0.00 min

Lab File: VX015496.D

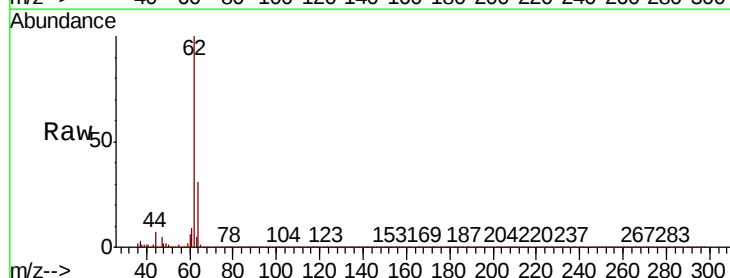
Acq: 02 Apr 2020 20:39

Tgt Ion: 62 Resp: 187985

Ion Ratio Lower Upper

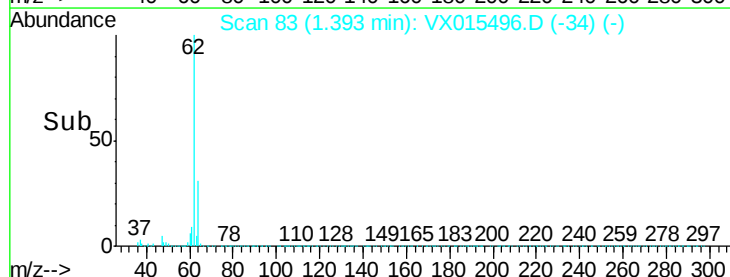
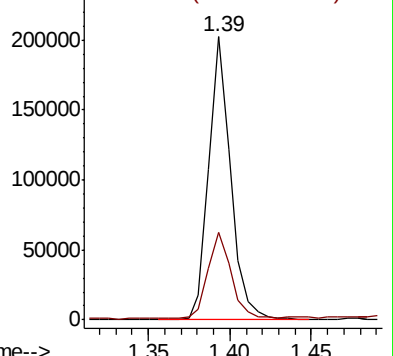
62 100

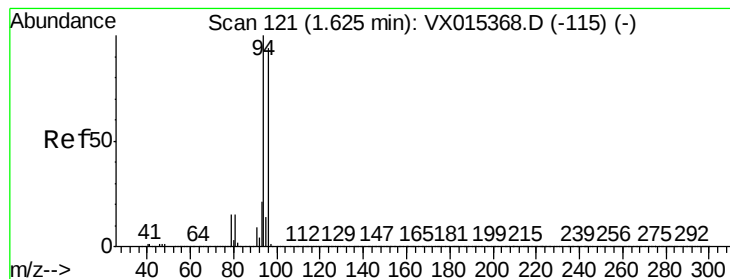
64 30.4 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 126

Delta R.T. 0.03 min

Lab File: VX015496.D

Acq: 02 Apr 2020 20:39

Instrument :

MSVOA_X

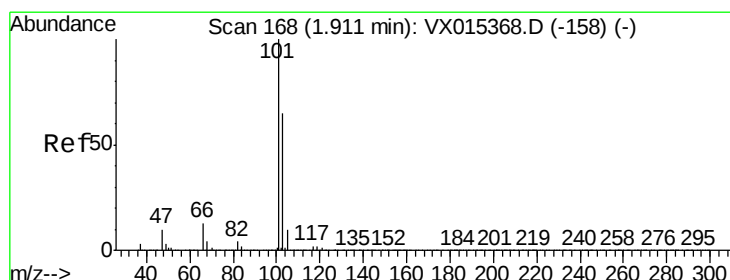
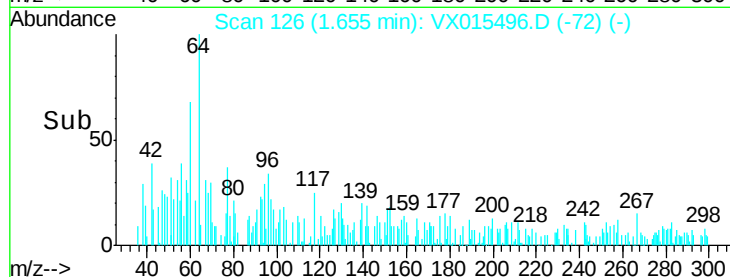
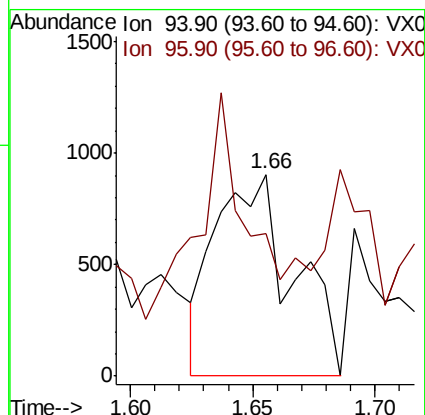
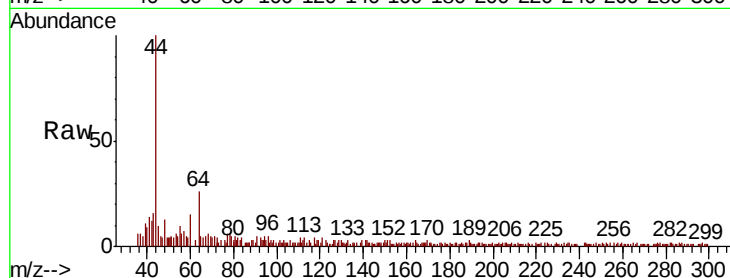
ClientSampleId :

Tot Ion: 94 Resp: 1998

Ion Ratio Lower Upper

94 100

96 2.4 74.8 112.2#



#7

Trichlorofluoromethane

Concen: 6.347 ug/l

RT: 1.92 min Scan# 169

Delta R.T. 0.01 min

Lab File: VX015496.D

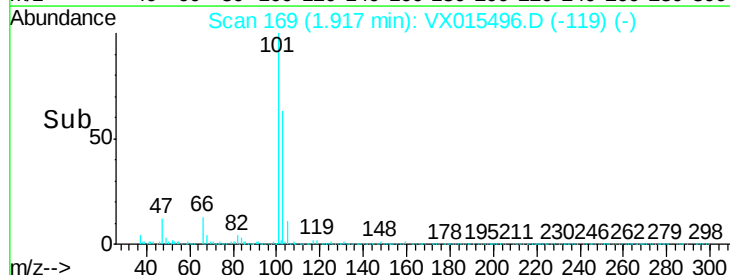
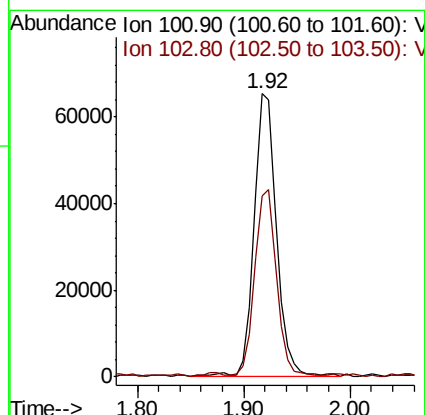
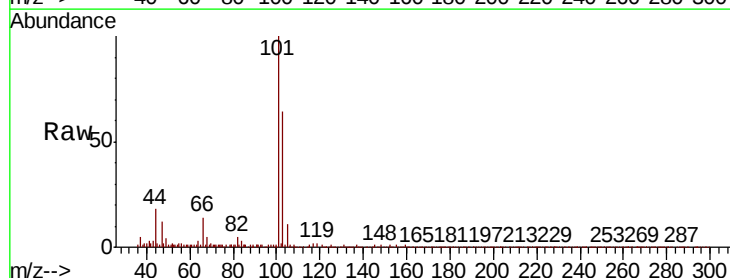
Acq: 02 Apr 2020 20:39

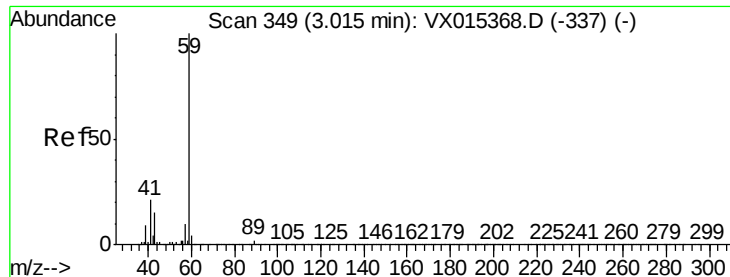
Tgt Ion: 101 Resp: 95778

Ion Ratio Lower Upper

101 100

103 63.6 52.3 78.5



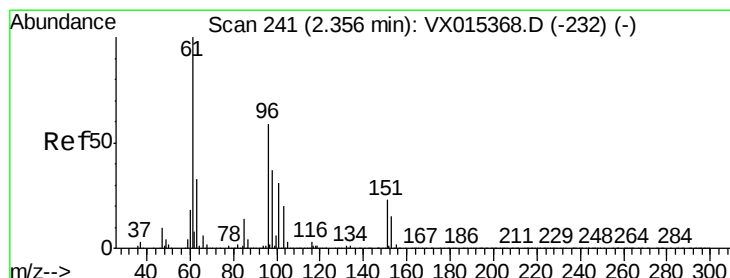
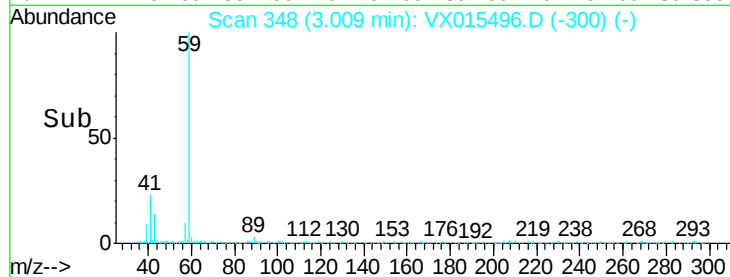
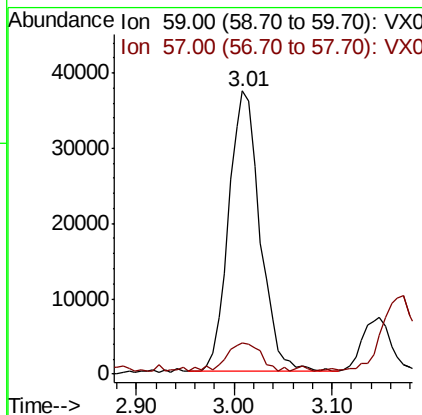
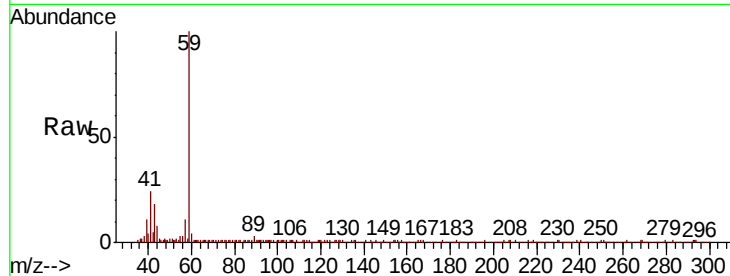


#11

Tert butyl alcohol
 Concen: 22.538 ug/l
 RT: 3.01 min Scan# 348
 Delta R.T. -0.01 min
 Lab File: VX015496.D
 Acq: 02 Apr 2020 20:39

Instrument :
 MSVOA_X
 ClientSampleId :

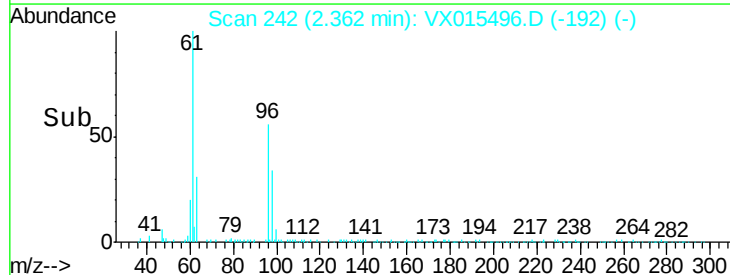
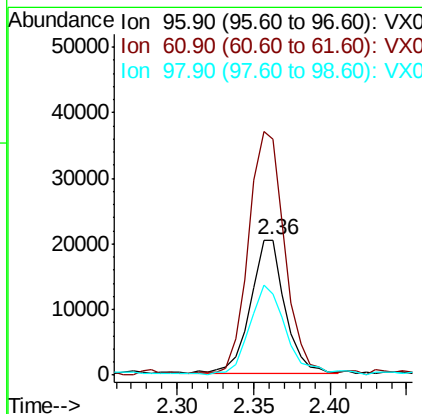
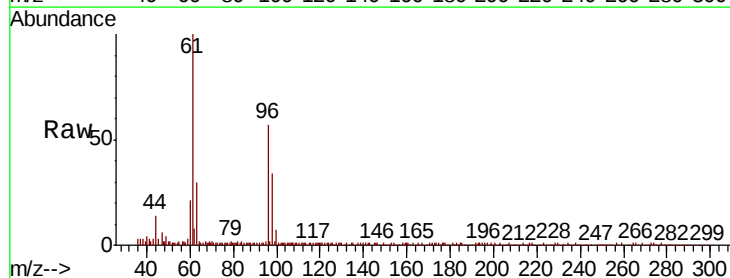
Tot Ion: 59 Resp: 83100
 Ion Ratio Lower Upper
 59 100
 57 10.8 8.1 12.1

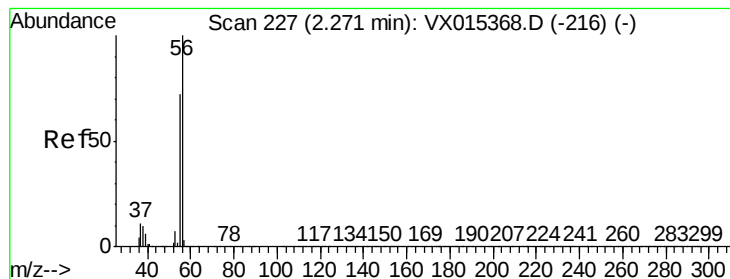


#12

1,1-Dichloroethene
 Concen: 3.105 ug/l
 RT: 2.36 min Scan# 242
 Delta R.T. 0.01 min
 Lab File: VX015496.D
 Acq: 02 Apr 2020 20:39

Tgt Ion: 96 Resp: 32018
 Ion Ratio Lower Upper
 96 100
 61 175.2 135.7 203.5
 98 58.7 50.6 75.8





#13

Acrolein

Concen: 0.239 ug/l

RT: 2.28 min Scan# 228

Delta R.T. 0.01 min

Lab File: VX015496.D

Acq: 02 Apr 2020 20:39

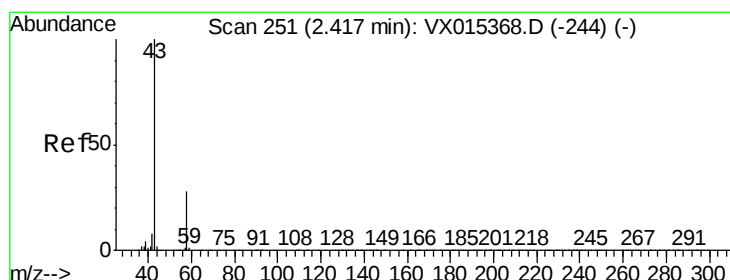
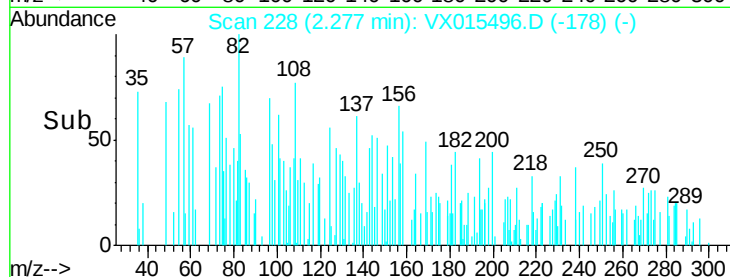
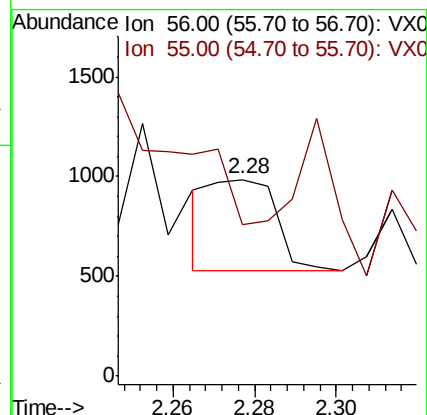
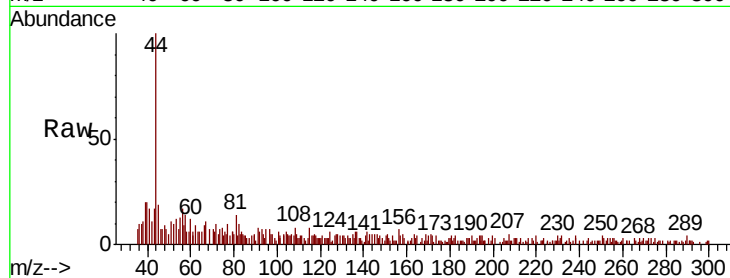
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 502

Ion Ratio Lower Upper

56 100

55 105.8 57.0 85.4#



#16

Acetone

Concen: 10.705 ug/l

RT: 2.42 min Scan# 252

Delta R.T. 0.01 min

Lab File: VX015496.D

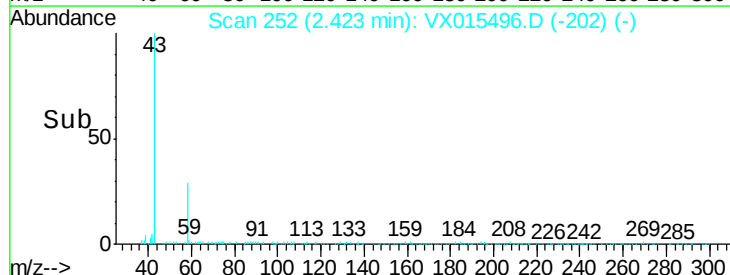
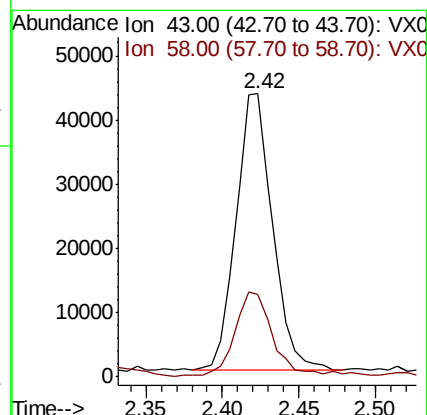
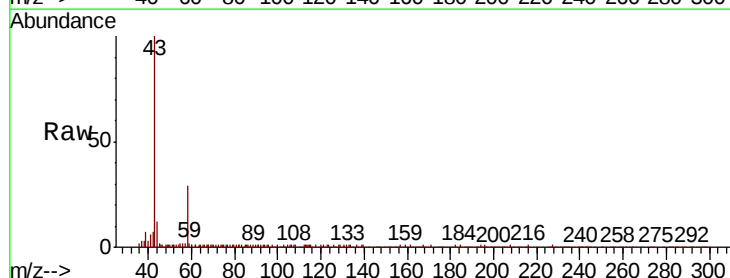
Acq: 02 Apr 2020 20:39

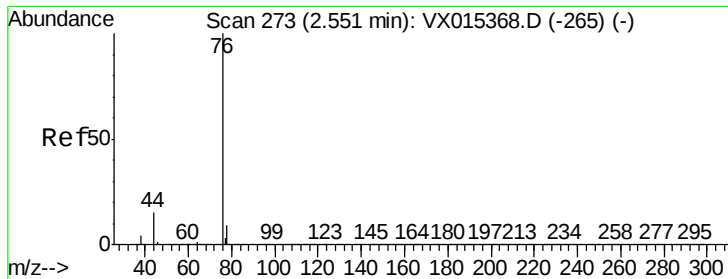
Tgt Ion: 43 Resp: 70845

Ion Ratio Lower Upper

43 100

58 29.2 22.1 33.1

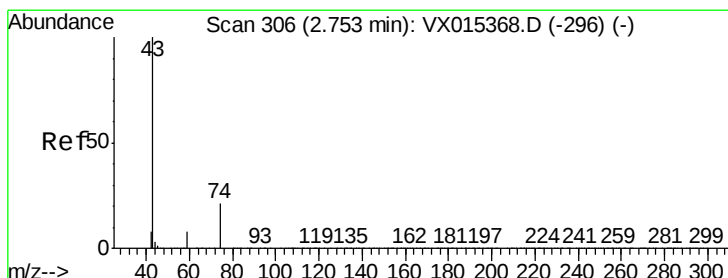
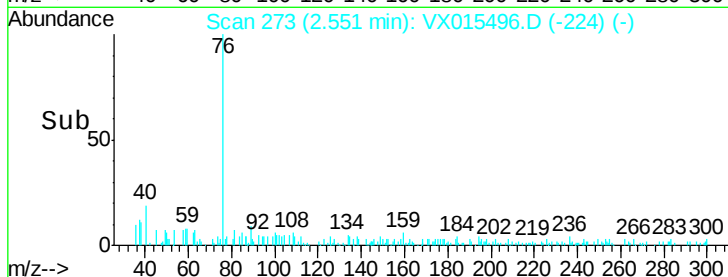
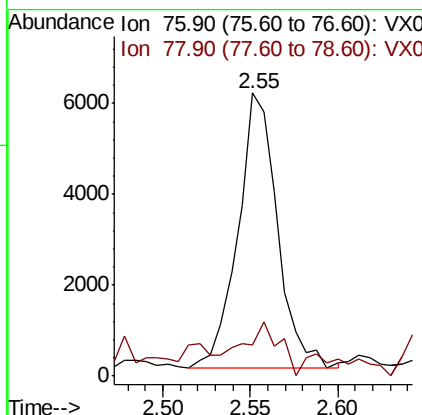
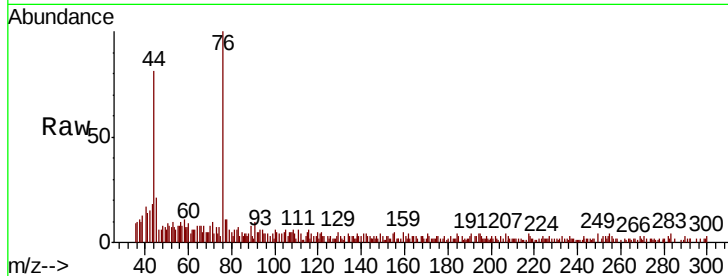




#17
Carbon Disulfide
Concen: 0.300 ug/l
RT: 2.55 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX015496.D
Acq: 02 Apr 2020 20:39

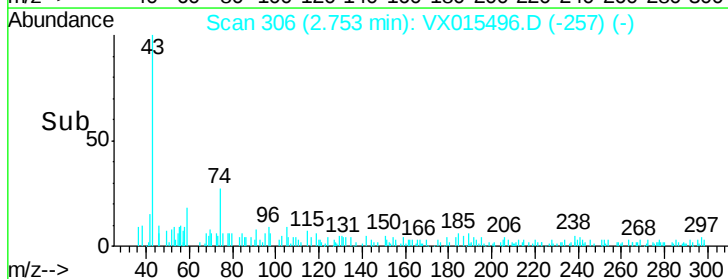
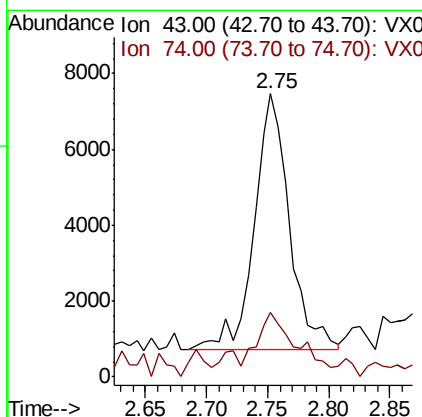
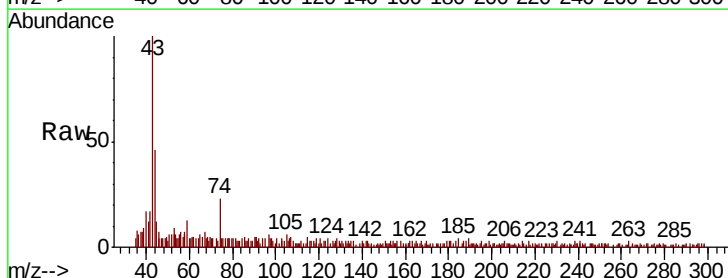
Instrument :
MSVOA_X
ClientSampleId :

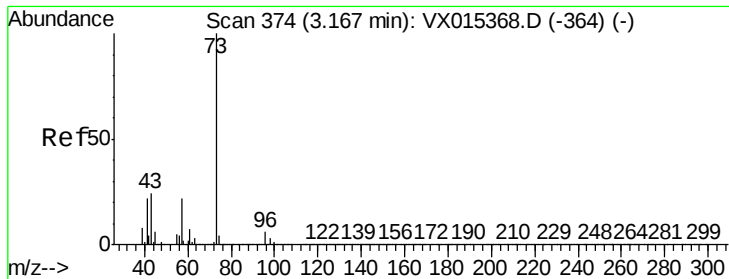
Tot Ion: 76 Resp: 9452
Ion Ratio Lower Upper
76 100
78 5.3 7.1 10.7#



#18
Methyl Acetate
Concen: 0.798 ug/l
RT: 2.75 min Scan# 306
Delta R.T. -0.00 min
Lab File: VX015496.D
Acq: 02 Apr 2020 20:39

Tgt Ion: 43 Resp: 13471
Ion Ratio Lower Upper
43 100
74 20.9 16.5 24.7

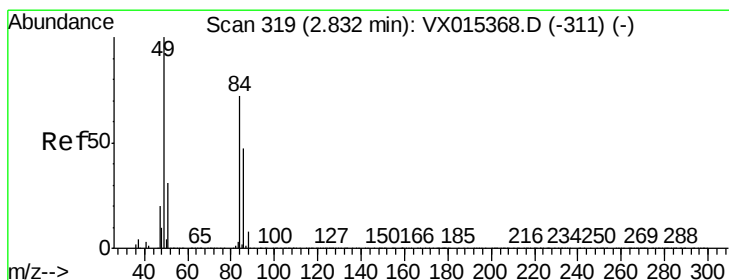
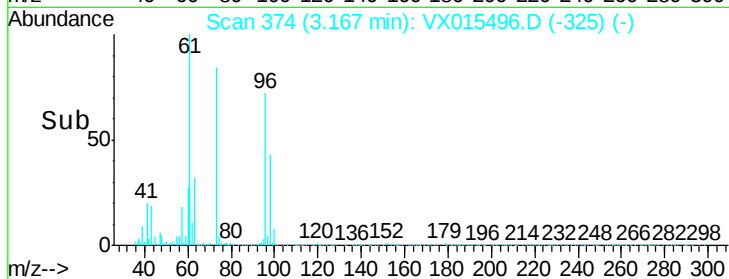
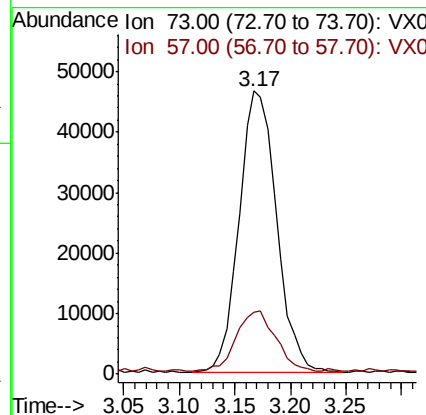
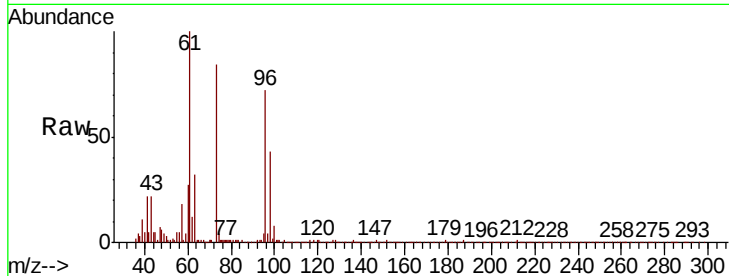




#19
Methvl tert-butvl Ether
Concen: 2.724 ug/l
RT: 3.17 min Scan# 374
Delta R.T. -0.00 min
Lab File: VX015496.D
Acq: 02 Apr 2020 20:39

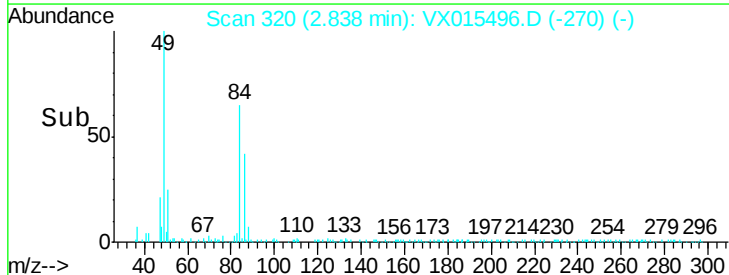
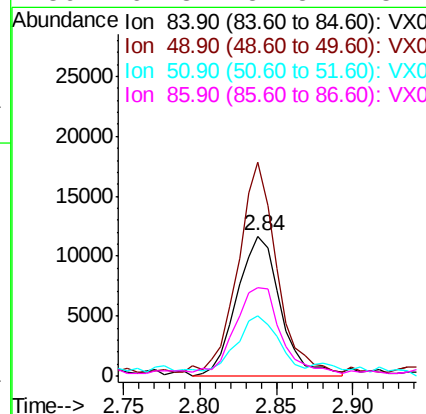
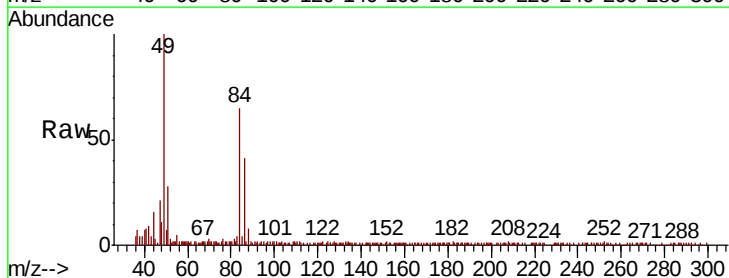
Instrument :
MSVOA_X
ClientSampled :

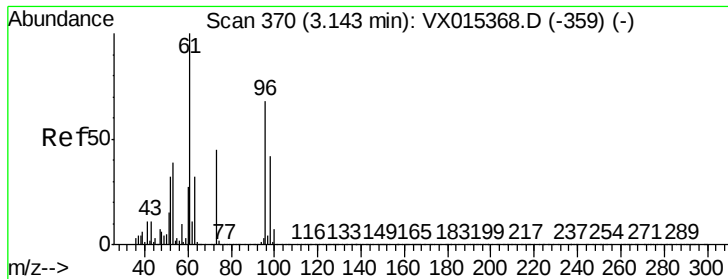
Tot Ion: 73 Resp: 108945
Ion Ratio Lower Upper
73 100
57 20.7 17.9 26.9



#20
Methylene Chloride
Concen: 1.877 ug/l
RT: 2.84 min Scan# 320
Delta R.T. 0.01 min
Lab File: VX015496.D
Acq: 02 Apr 2020 20:39

Tgt Ion: 84 Resp: 23208
Ion Ratio Lower Upper
84 100
49 145.3 111.3 166.9
51 38.6 34.0 51.0
86 61.3 52.5 78.7





#21

trans-1,2-Dichloroethene

Concen: 22.920 ug/l

RT: 3.15 min Scan# 371

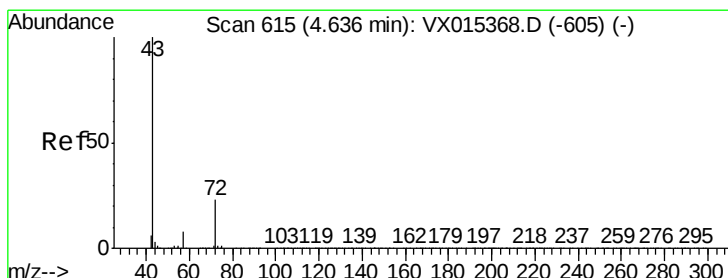
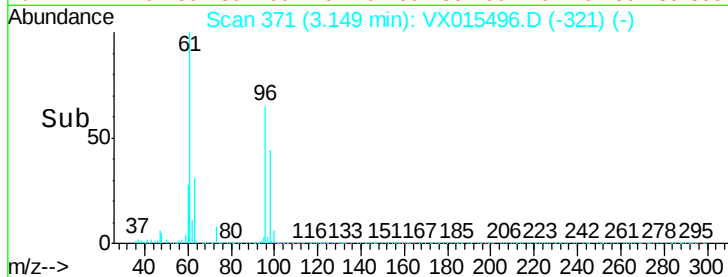
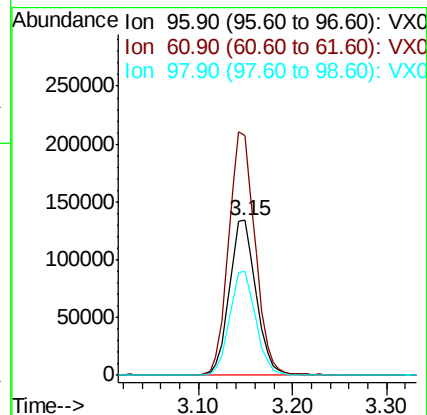
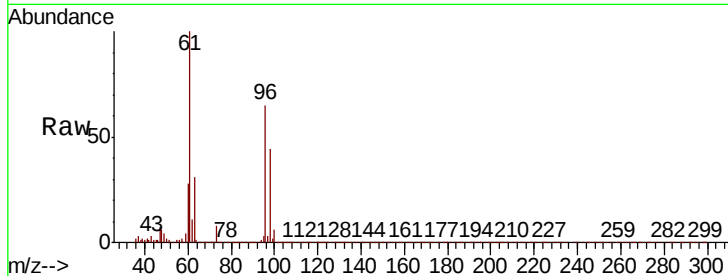
Delta R.T. 0.01 min

Lab File: VX015496.D

Acq: 02 Apr 2020 20:39

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	96	Resp:	262291
Ion	Ratio	Lower	Upper
96	100		
61	155.0	116.9	175.3
98	67.4	48.6	73.0



#25

2-Butanone

Concen: 2.657 ug/l

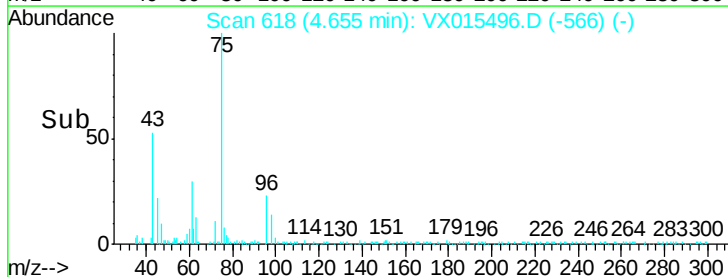
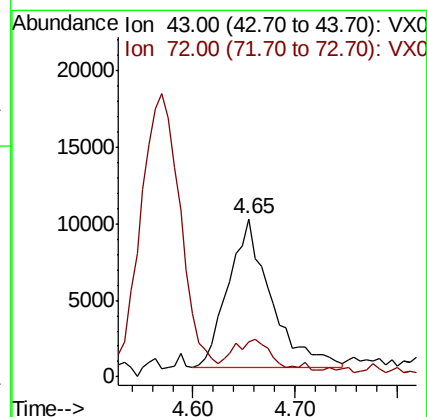
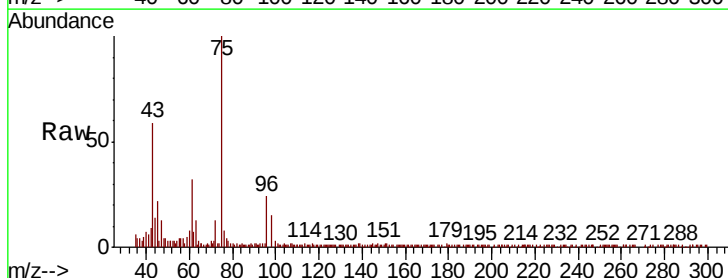
RT: 4.65 min Scan# 618

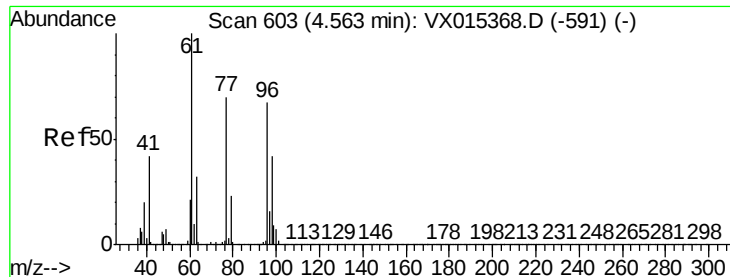
Delta R.T. 0.02 min

Lab File: VX015496.D

Acq: 02 Apr 2020 20:39

Tgt Ion:	43	Resp:	28280
Ion	Ratio	Lower	Upper
43	100		
72	18.7	19.0	28.4#



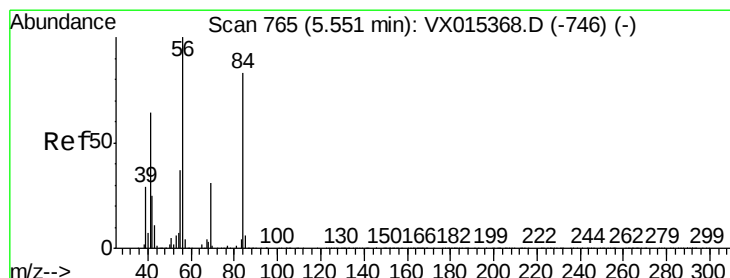
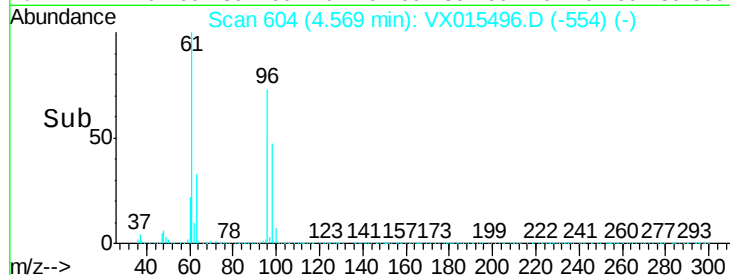
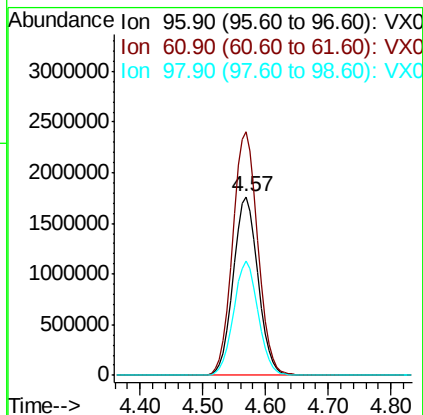
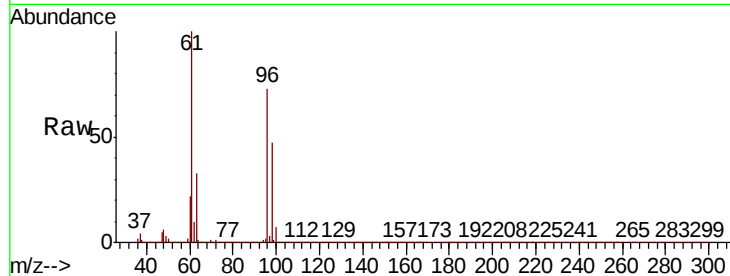


#27

cis-1,2-Dichloroethene
Concen: 363.934 ug/l
RT: 4.57 min Scan# 604
Delta R.T. 0.01 min
Lab File: VX015496.D
Acq: 02 Apr 2020 20:39

Instrument :
MSVOA_X
ClientSampleId :

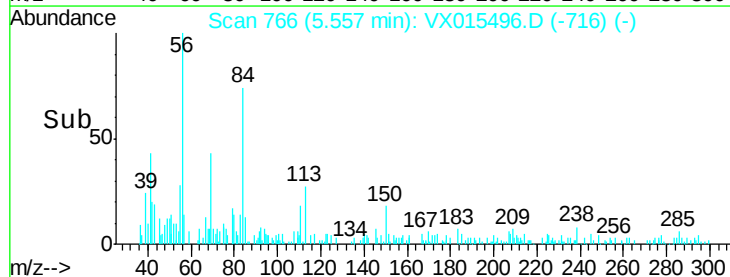
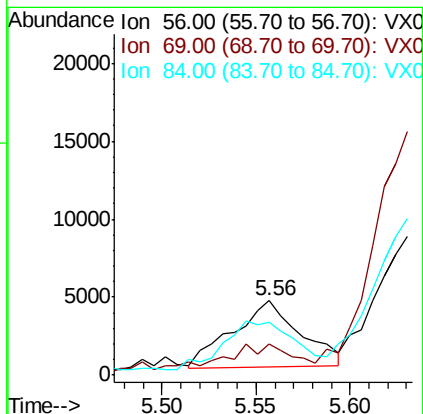
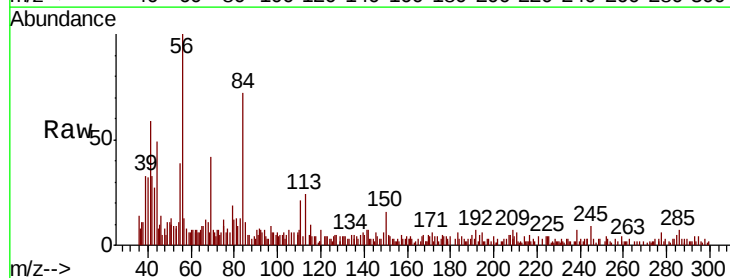
Tot Ion: 96 Resp: 4818381
Ion Ratio Lower Upper
96 100
61 138.2 0.0 308.4
98 63.4 0.0 129.2

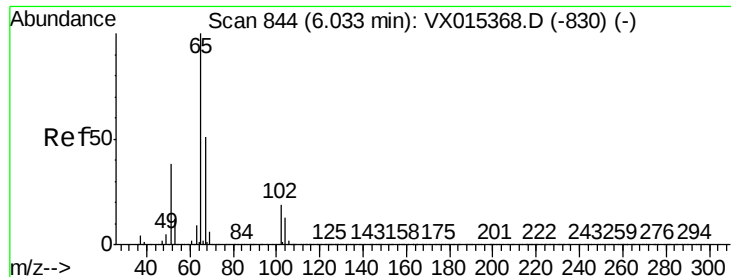


#31

Cyclohexane
Concen: 0.555 ug/l
RT: 5.56 min Scan# 766
Delta R.T. 0.01 min
Lab File: VX015496.D
Acq: 02 Apr 2020 20:39

Tgt Ion: 56 Resp: 10828
Ion Ratio Lower Upper
56 100
69 28.1 24.6 36.8
84 54.9 66.1 99.1#

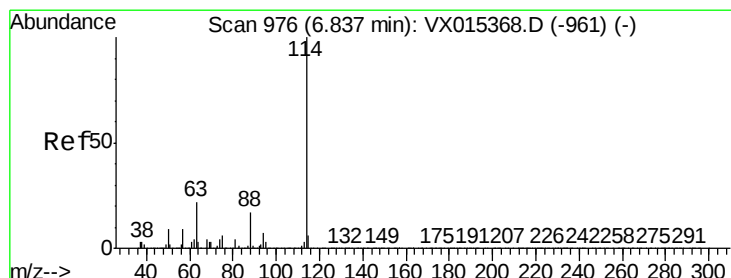
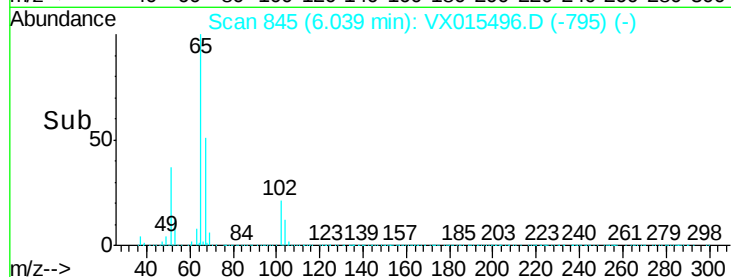
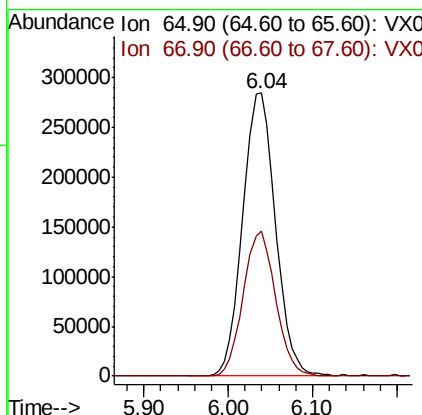
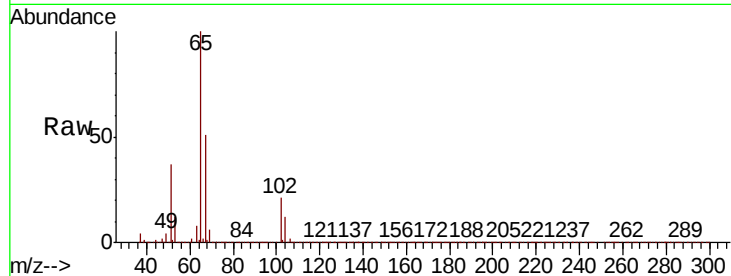




#33
 1,2-Dichloroethane-d4
 Concen: 48.608 ug/l
 RT: 6.04 min Scan# 845
 Delta R.T. 0.01 min
 Lab File: VX015496.D
 Acq: 02 Apr 2020 20:39

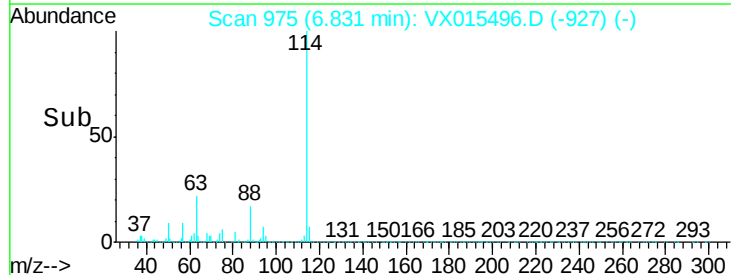
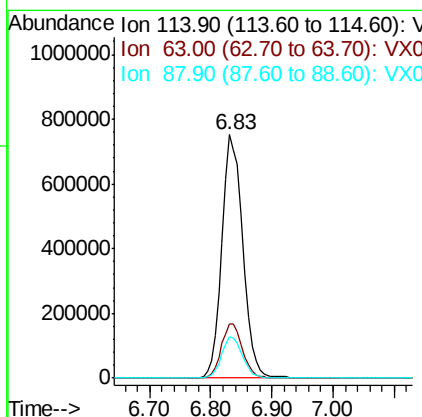
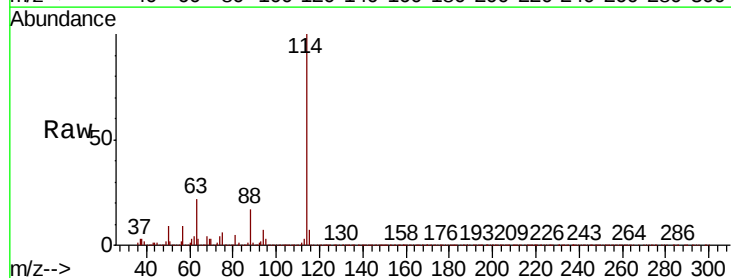
Instrument :
 MSVOA_X
 ClientSampleId :

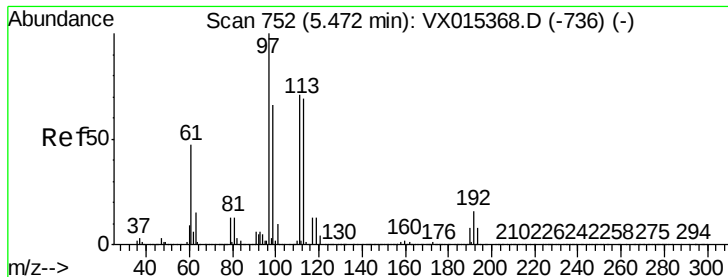
Tot Ion: 65 Resp: 748768
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 975
 Delta R.T. -0.01 min
 Lab File: VX015496.D
 Acq: 02 Apr 2020 20:39

Tgt Ion: 114 Resp: 1791192
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 44.2
 88 16.9 0.0 33.8

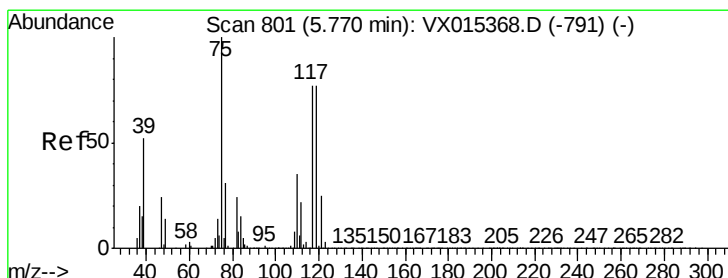
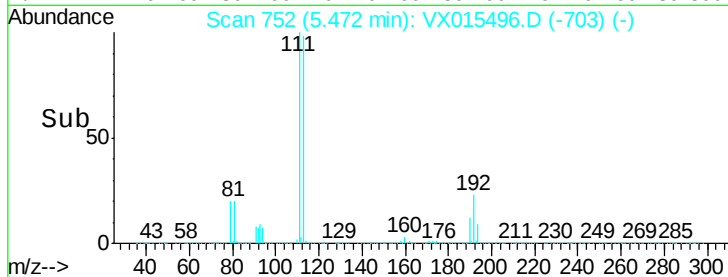
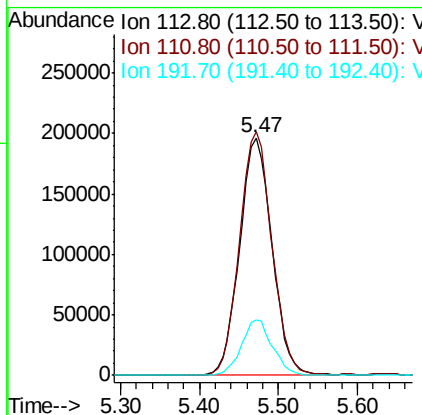
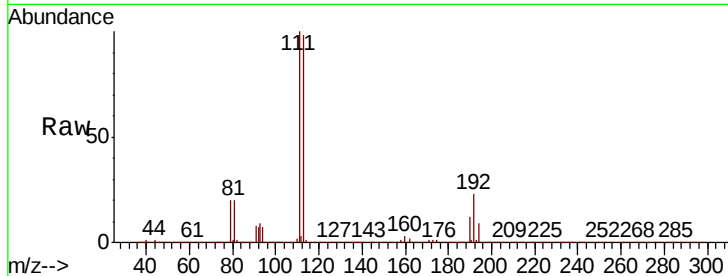




#35
 Dibromofluoromethane
 Concen: 48.873 ug/l
 RT: 5.47 min Scan# 752
 Delta R.T. -0.00 min
 Lab File: VX015496.D
 Acq: 02 Apr 2020 20:39

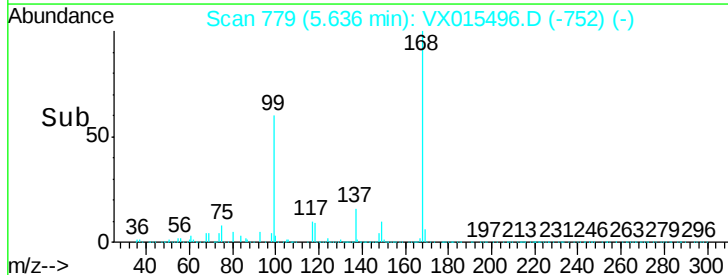
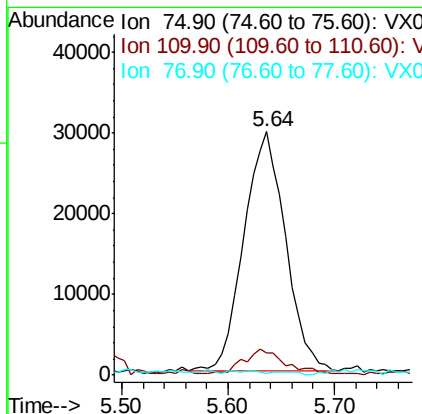
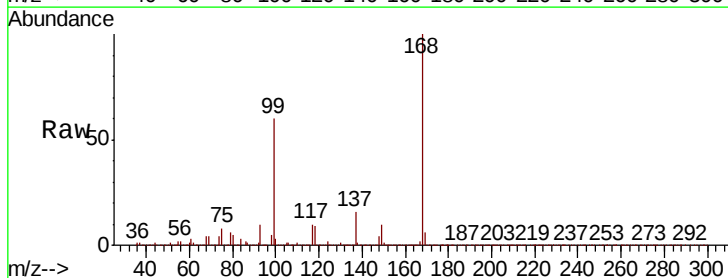
Instrument :
 MSVOA_X
 ClientSampleId :

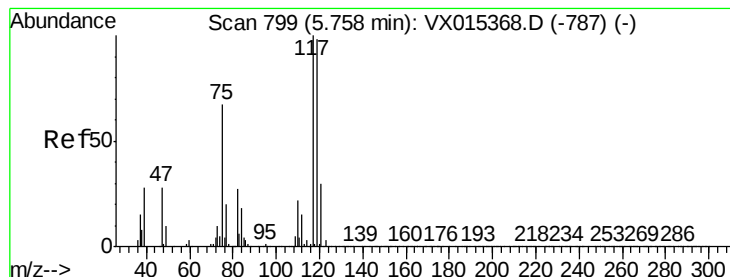
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.5	122.3
192	22.6	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 4.959 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. -0.13 min
 Lab File: VX015496.D
 Acq: 02 Apr 2020 20:39

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.2	17.1	51.3#
77	0.8	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 6.260 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.13 min

Lab File: VX015496.D

Acq: 02 Apr 2020 20:39

Instrument :

MSVOA_X

ClientSampleId :

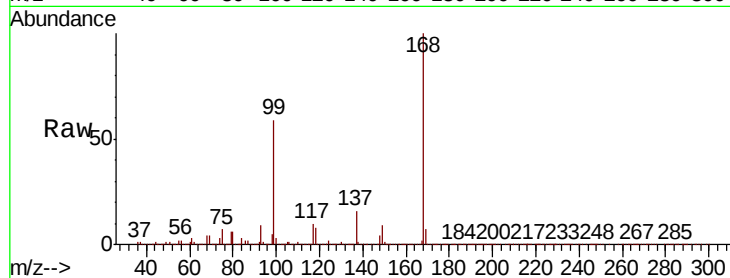
Tot Ion:117 Resp: 111906

Ion Ratio Lower Upper

117 100

119 2.0 78.0 117.0#

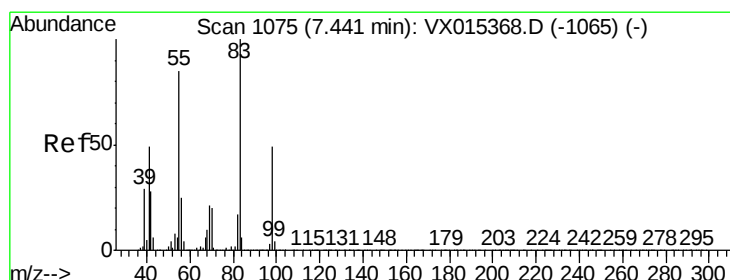
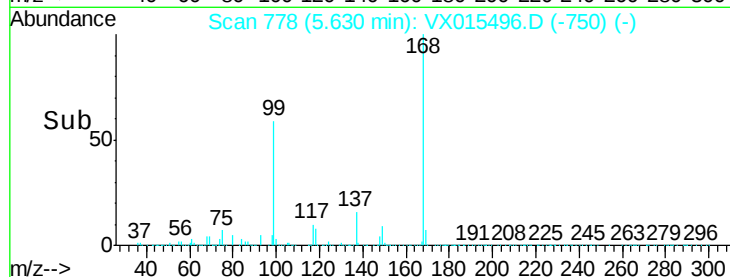
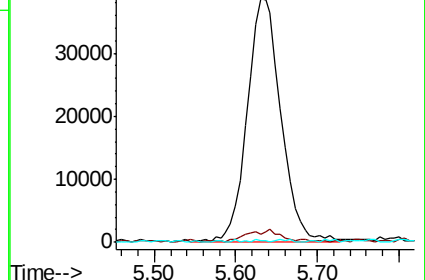
121 0.2 23.8 35.8#



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



#39

Methylcyclohexane

Concen: 0.310 ug/l

RT: 7.44 min Scan# 1075

Delta R.T. -0.00 min

Lab File: VX015496.D

Acq: 02 Apr 2020 20:39

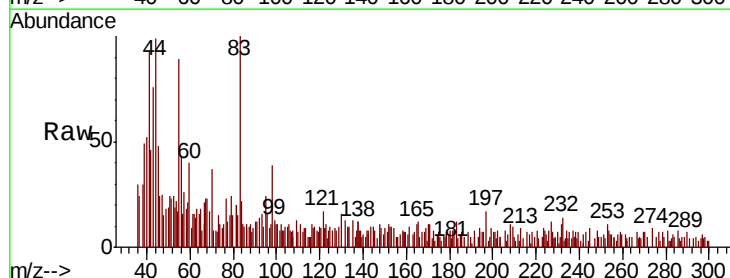
Tgt Ion: 83 Resp: 5891

Ion Ratio Lower Upper

83 100

55 66.5 67.8 101.6#

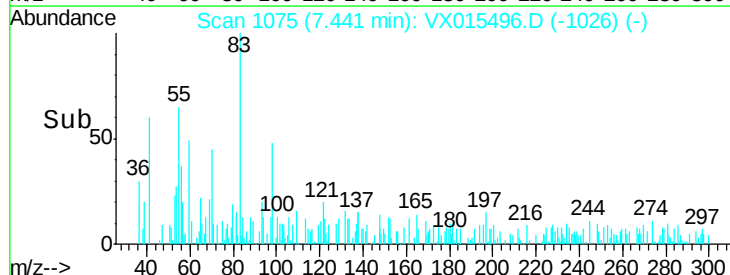
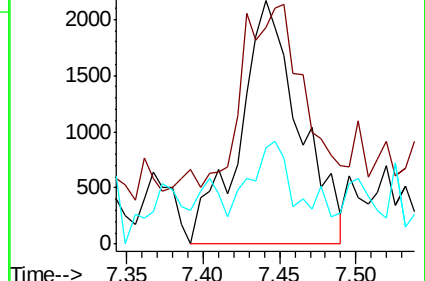
98 30.4 39.3 58.9#

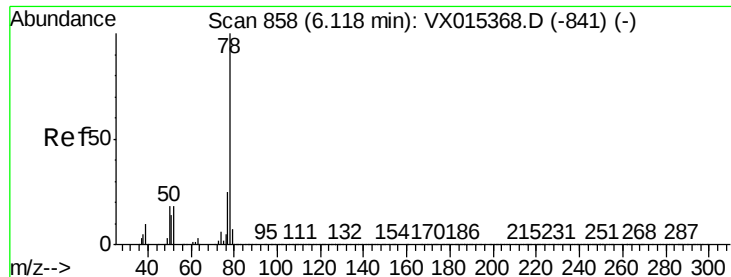


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#40

Benzene

Concen: 0.282 ug/l

RT: 6.12 min Scan# 858

Delta R.T. -0.00 min

Lab File: VX015496.D

Acq: 02 Apr 2020 20:39

Instrument :

MSVOA_X

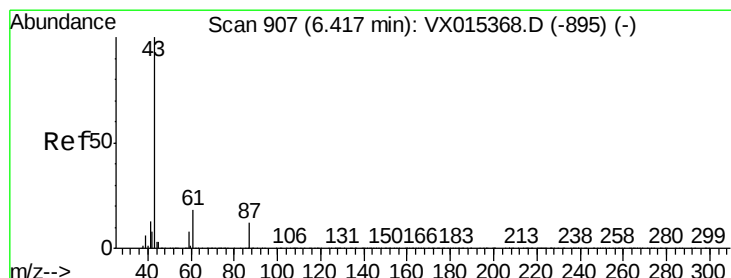
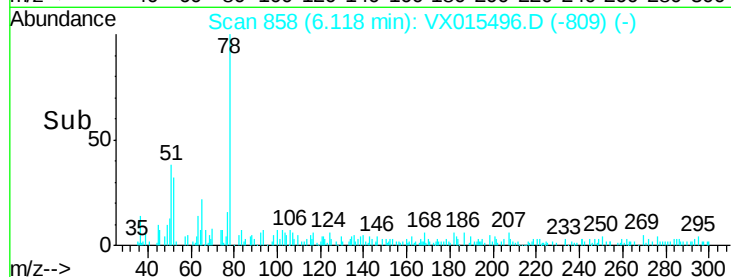
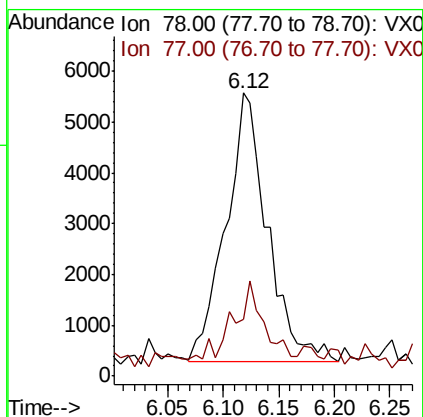
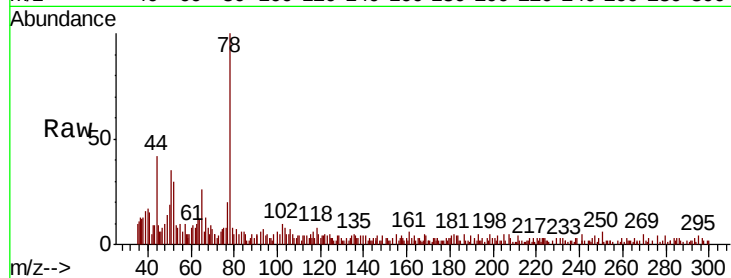
ClientSampleId :

Tot Ion: 78 Resp: 13647

Ion Ratio Lower Upper

78 100

77 14.9 19.8 29.8#



#43

Isopropyl Acetate

Concen: 6.082 ug/l

RT: 6.42 min Scan# 907

Delta R.T. -0.00 min

Lab File: VX015496.D

Acq: 02 Apr 2020 20:39

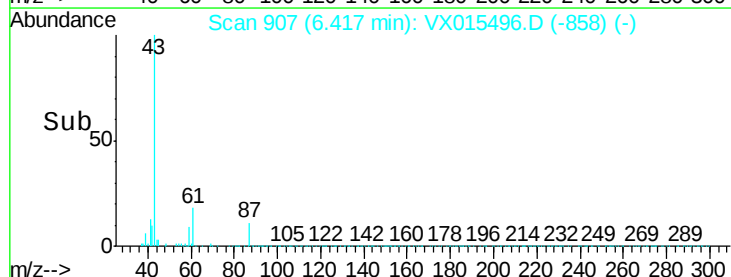
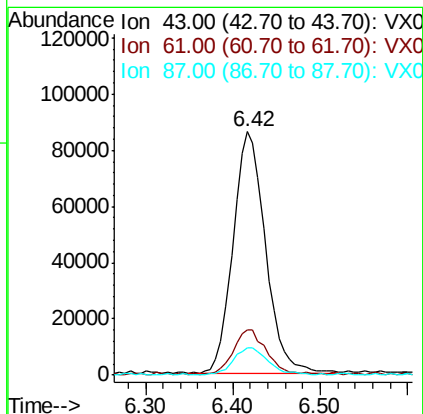
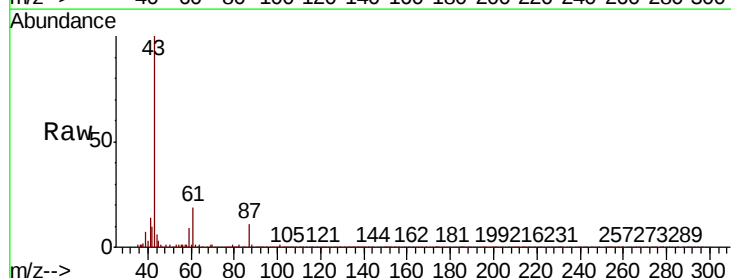
Tgt Ion: 43 Resp: 220621

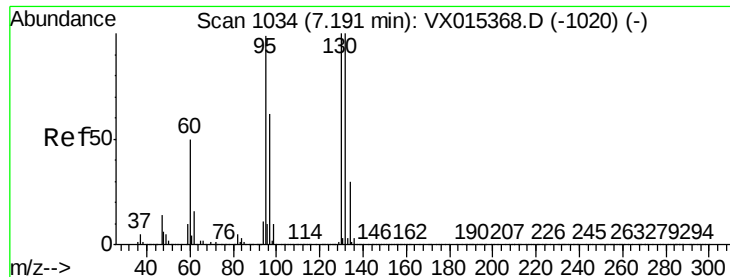
Ion Ratio Lower Upper

43 100

61 18.5 14.8 22.2

87 12.4 9.4 14.0





#44

Trichloroethene

Concen: 137.528 ug/l

RT: 7.19 min Scan# 1034

Delta R.T. -0.00 min

Lab File: VX015496.D

Acq: 02 Apr 2020 20:39

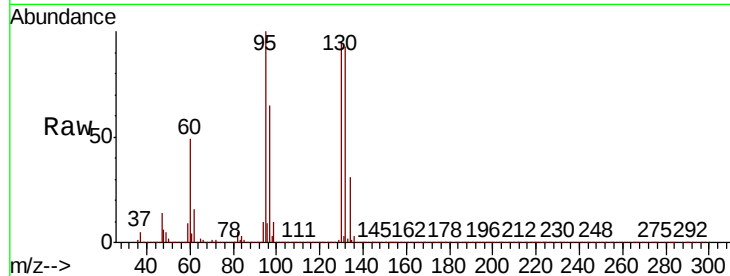
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:130 Resp: 1813265

Ion Ratio Lower Upper

130 100

95 105.5 0.0 199.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

1000000

800000

600000

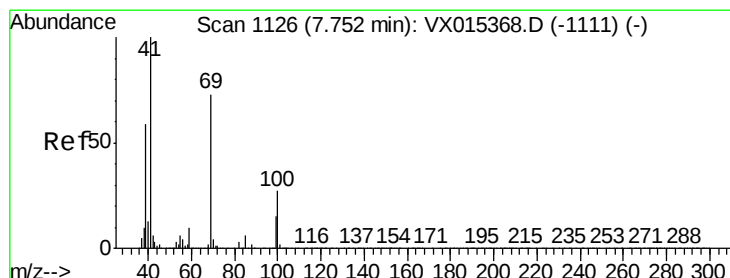
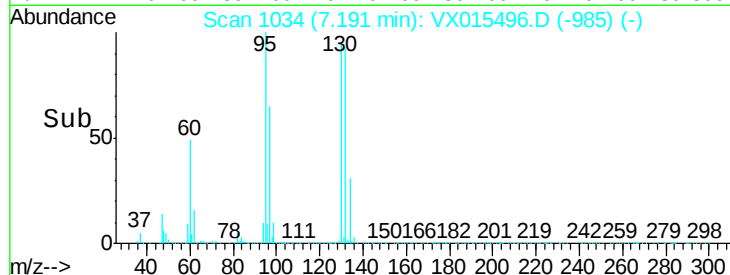
400000

200000

0

7.10 7.20 7.30

Time-->



#48

Methyl methacrylate

Concen: 0.815 ug/l

RT: 7.65 min Scan# 1110

Delta R.T. -0.10 min

Lab File: VX015496.D

Acq: 02 Apr 2020 20:39

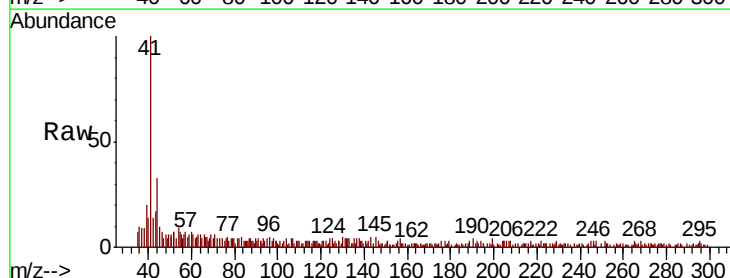
Tgt Ion: 41 Resp: 14759

Ion Ratio Lower Upper

41 100

69 0.0 56.7 85.1#

39 0.0 46.5 69.7#



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

10000

8000

6000

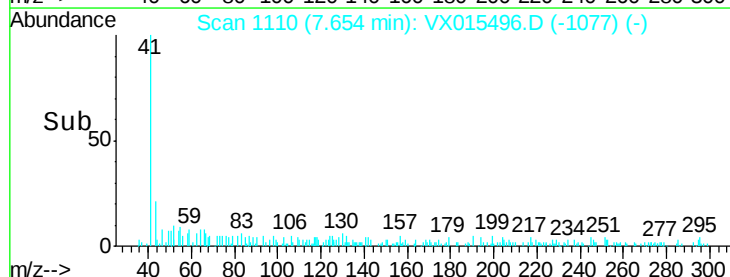
4000

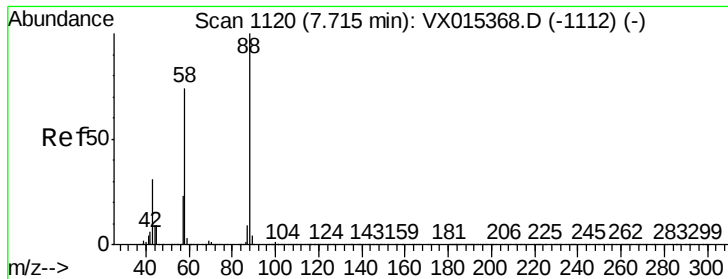
2000

0

7.60 7.65 7.70 7.75

Time-->





#49

1,4-Dioxane

Concen: 0.476 ug/l

RT: 7.70 min Scan# 1118

Delta R.T. -0.01 min

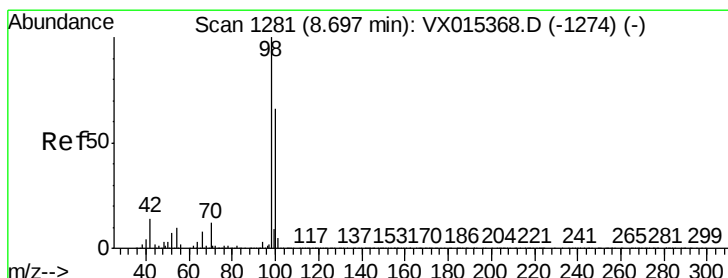
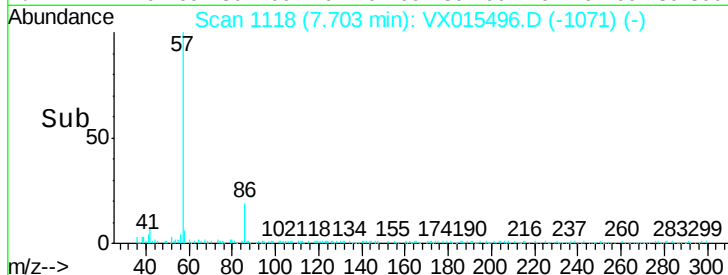
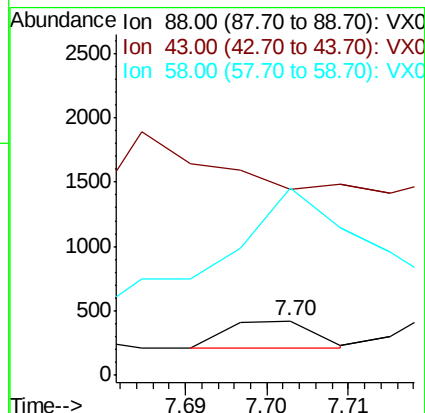
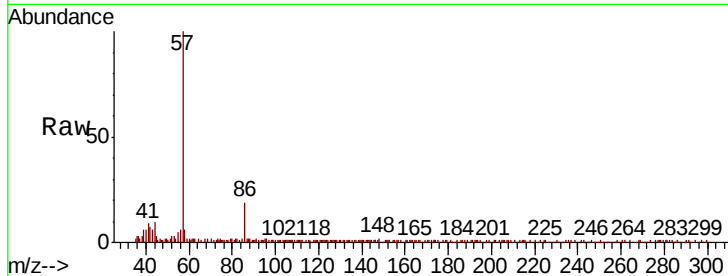
Lab File: VX015496.D

Acq: 02 Apr 2020 20:39

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 88 Resp: 161

Ion	Ratio	Lower	Upper
88	100		
43	0.0	30.1	45.1#
58	1182.6	60.6	90.8#



#50

Toluene-d8

Concen: 51.202 ug/l

RT: 8.70 min Scan# 1281

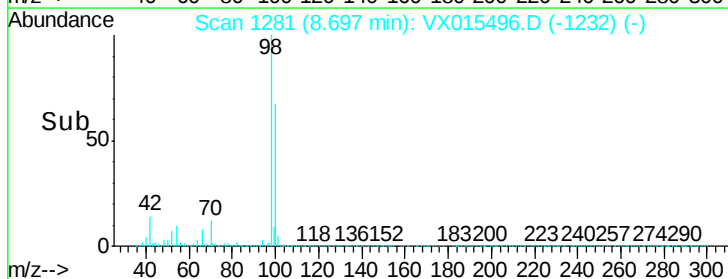
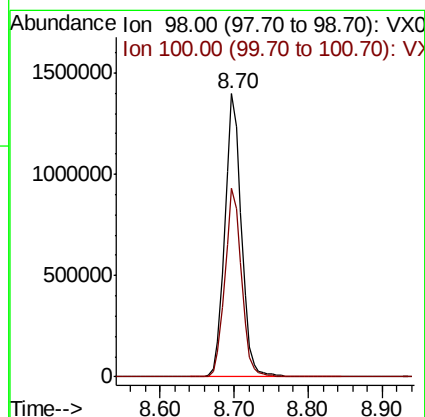
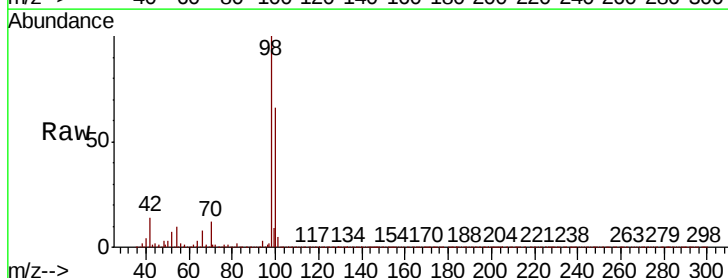
Delta R.T. -0.00 min

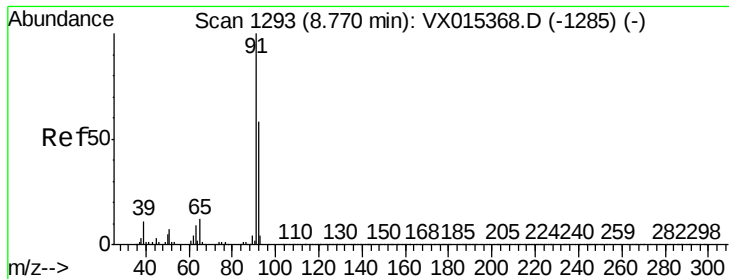
Lab File: VX015496.D

Acq: 02 Apr 2020 20:39

Tgt Ion: 98 Resp: 2158433

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.5	80.3





#52

Toluene

Concen: 0.316 ug/l

RT: 8.77 min Scan# 1293

Delta R.T. -0.00 min

Lab File: VX015496.D

Acq: 02 Apr 2020 20:39

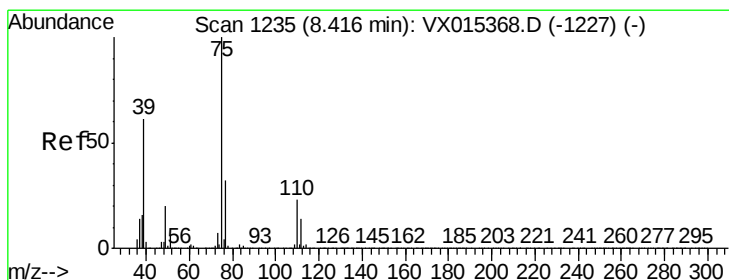
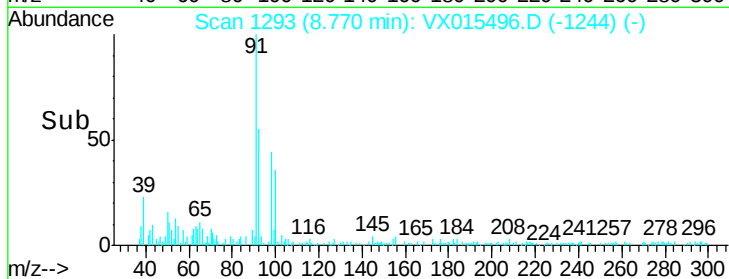
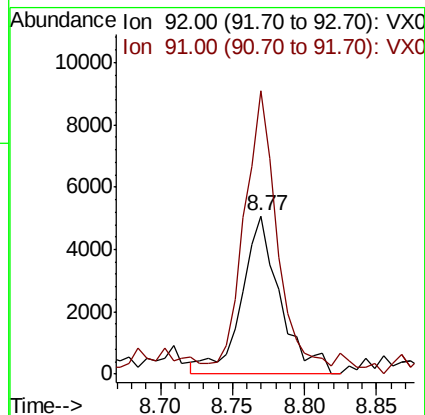
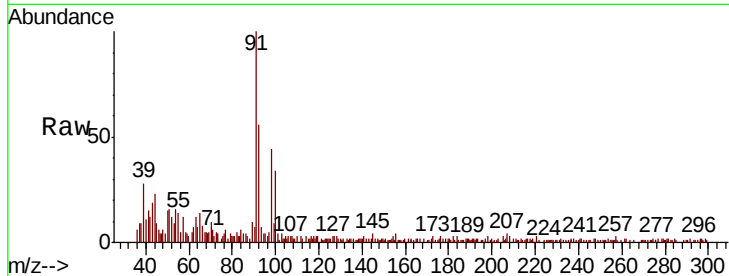
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 92 Resp: 9427

Ion Ratio Lower Upper

92 100

91 142.8 136.6 205.0



#54

cis-1,3-Dichloropropene

Concen: 1.758 ug/l

RT: 8.60 min Scan# 1265

Delta R.T. 0.18 min

Lab File: VX015496.D

Acq: 02 Apr 2020 20:39

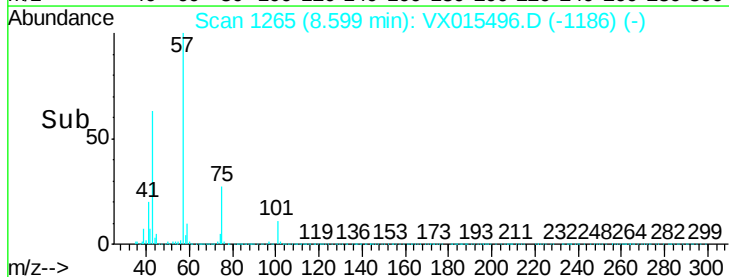
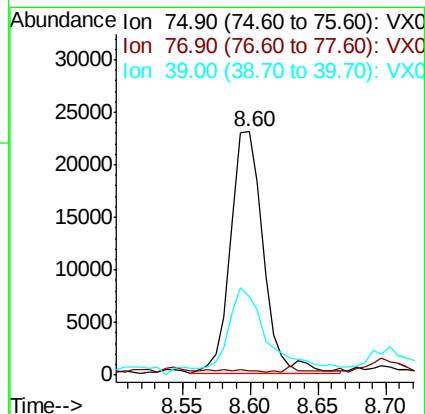
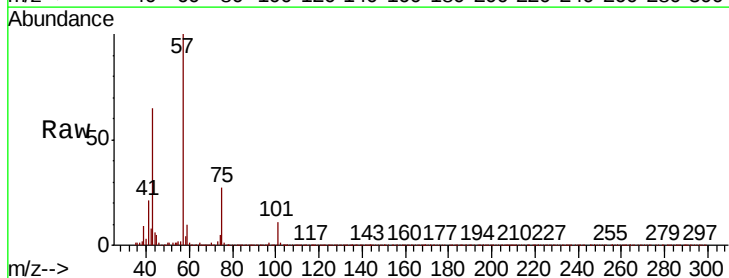
Tgt Ion: 75 Resp: 38831

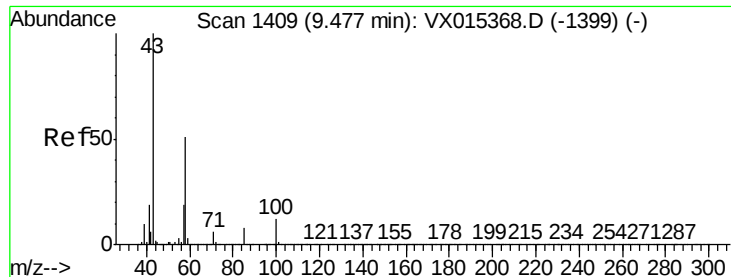
Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.6#

39 29.3 49.0 73.4#

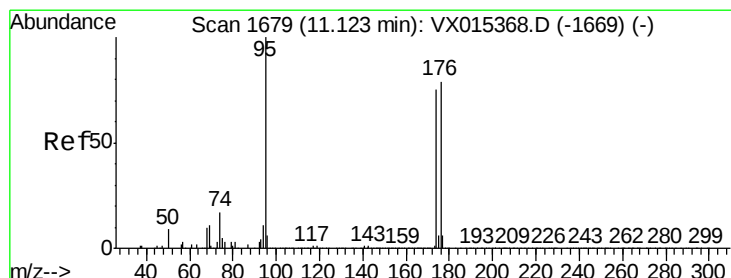
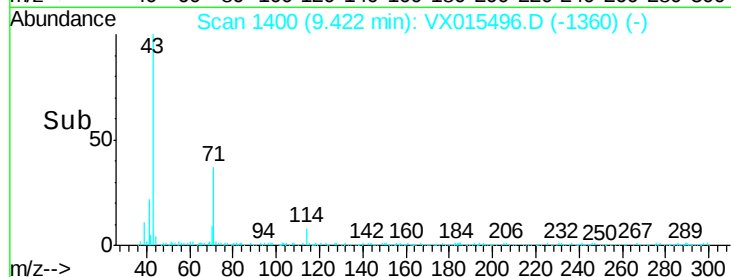
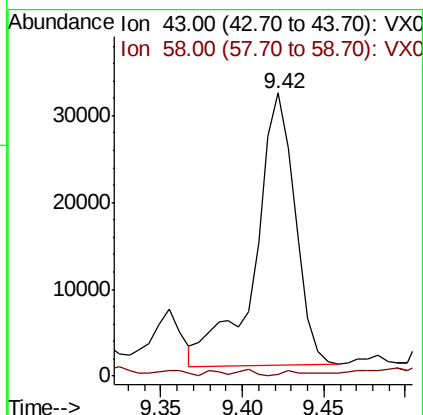
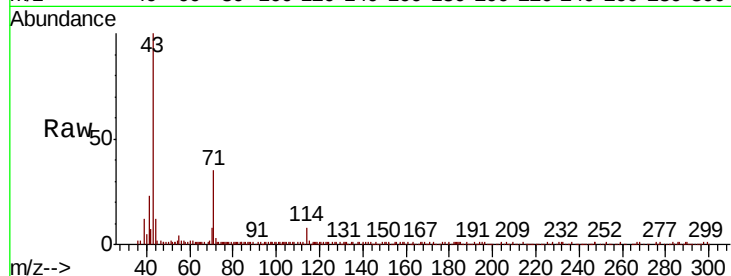




#59
2-Hexanone
Concen: 3.443 ug/l
RT: 9.42 min Scan# 1400
Delta R.T. -0.05 min
Lab File: VX015496.D
Acq: 02 Apr 2020 20:39

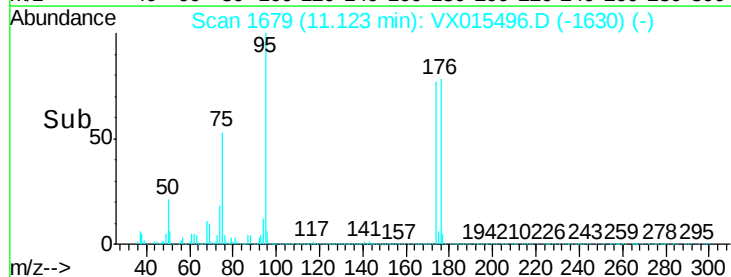
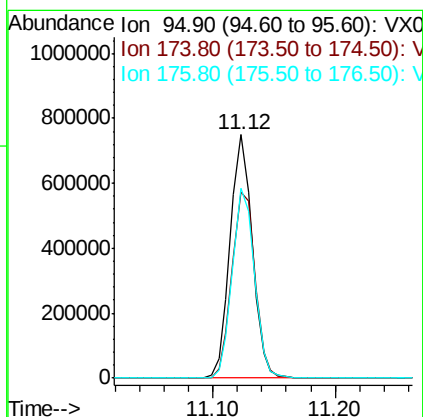
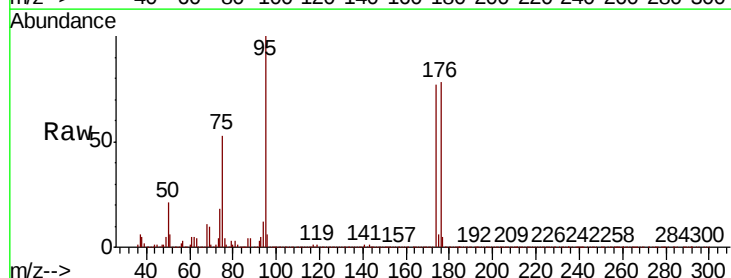
Instrument :
MSVOA_X
ClientSampleId :

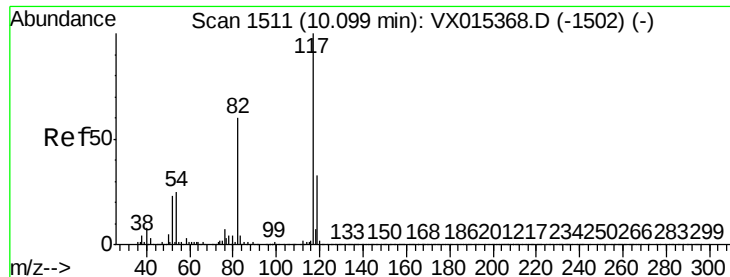
Tot Ion: 43 Resp: 53434
Ion Ratio Lower Upper
43 100
58 1.3 25.6 76.6#



#62
4-Bromofluorobenzene
Concen: 54.620 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VX015496.D
Acq: 02 Apr 2020 20:39

Tgt Ion: 95 Resp: 935744
Ion Ratio Lower Upper
95 100
174 80.2 0.0 158.6
176 78.0 0.0 159.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1511

Delta R.T. -0.00 min

Lab File: VX015496.D

Acq: 02 Apr 2020 20:39

Instrument :

MSVOA_X

ClientSampleId :

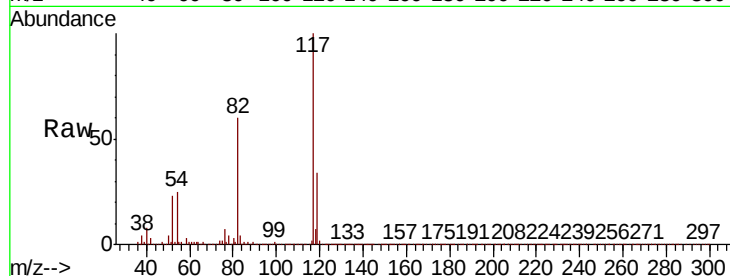
Tot Ion:117 Resp: 1713849

Ion Ratio Lower Upper

117 100

82 60.0 47.8 71.8

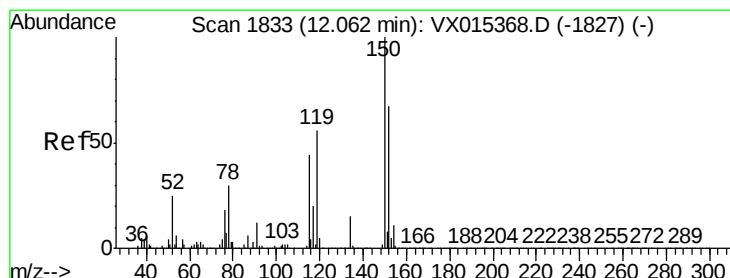
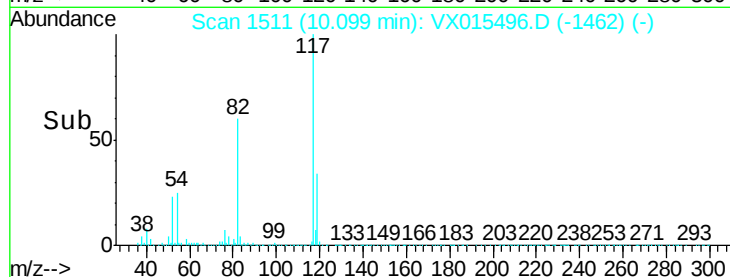
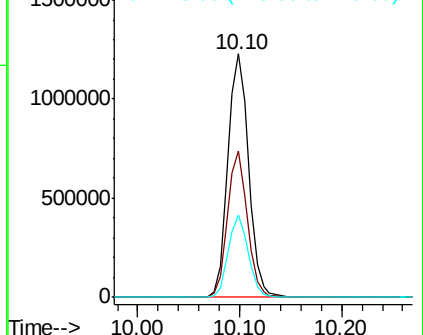
119 33.8 26.8 40.2



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: 12.06 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VX015496.D

Acq: 02 Apr 2020 20:39

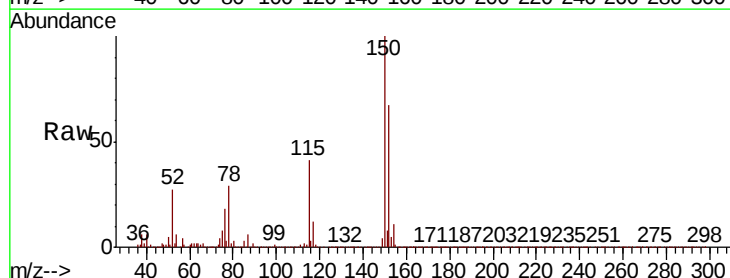
Tgt Ion:152 Resp: 919294

Ion Ratio Lower Upper

152 100

115 59.7 39.0 116.9

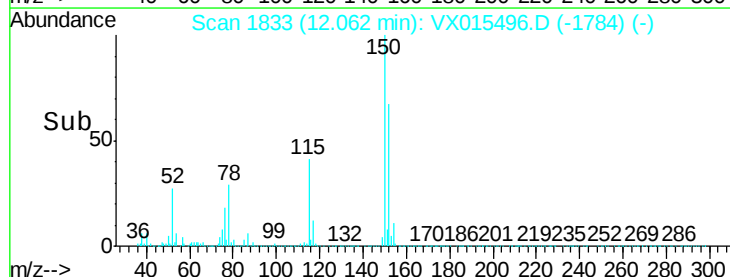
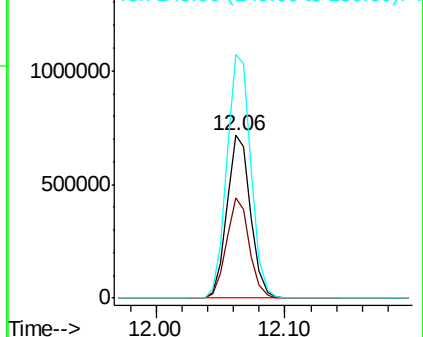
150 153.5 0.0 340.8

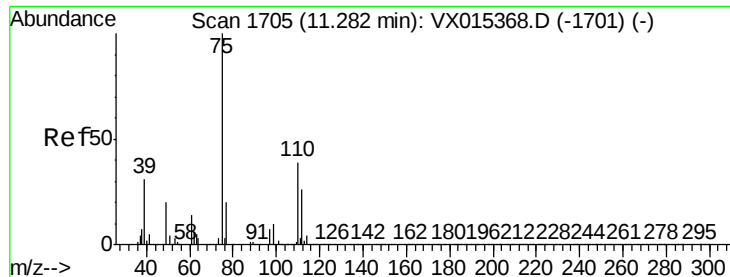


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.558 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015496.D

Acq: 02 Apr 2020 20:39

Instrument :

MSVOA_X

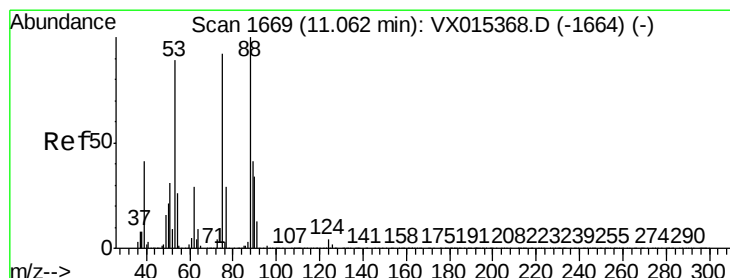
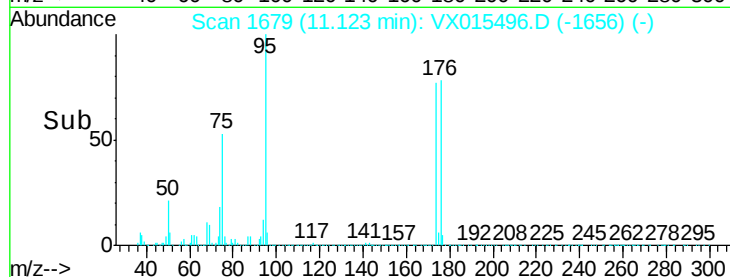
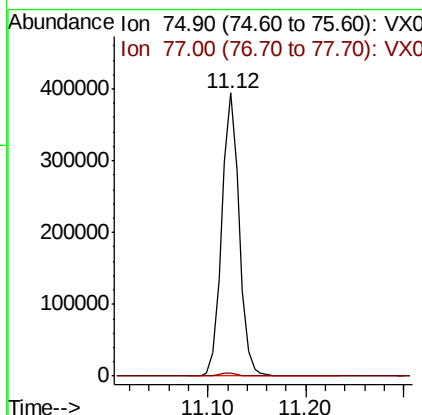
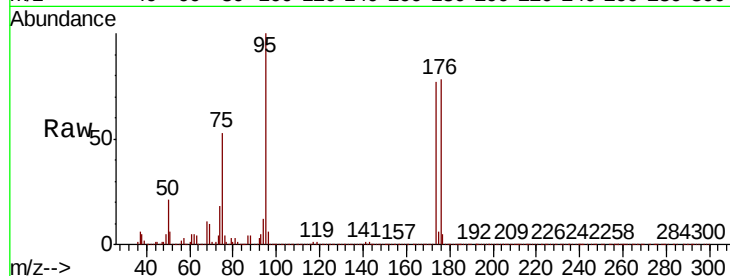
ClientSampleId :

Tot Ion: 75 Resp: 483160

Ion Ratio Lower Upper

75 100

77 1.1 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.325 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015496.D

Acq: 02 Apr 2020 20:39

Tgt Ion: 75 Resp: 483160

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

89 0.0 36.1 54.1#

