

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX010820\
 Data File : VX014482.D
 Acq On : 08 Jan 2020 19:27
 Operator : JC/SP
 Sample : PB125936ZHE#06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 09 06:12:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 07 15:54:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	521808	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	805500	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	747846	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	345183	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	287785	49.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.80%	
35) Dibromofluoromethane	5.49	113	239370	49.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.18%	
50) Toluene-d8	8.71	98	967296	51.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.24%	
62) 4-Bromofluorobenzene	11.13	95	338494	48.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.46%	

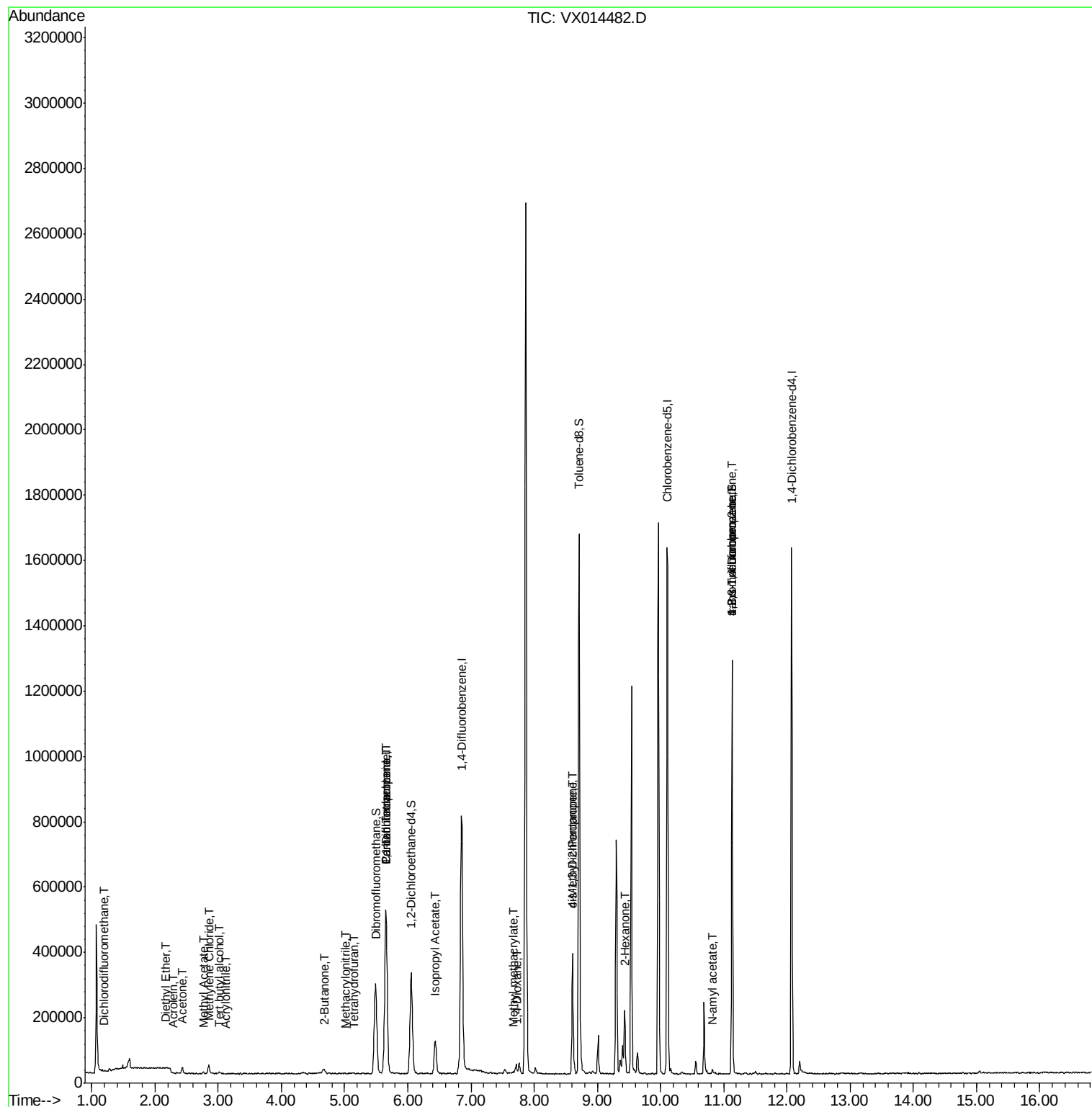
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	312	0.300	ug/l #	48
6) Chloroethane	1.78	64	1197	Below Cal	#	43
8) Diethyl Ether	2.18	74	1010	0.263	ug/l	73
11) Tert butyl alcohol	3.02	59	3970	3.264	ug/l #	90
13) Acrolein	2.29	56	211	0.216	ug/l #	1
15) Acrylonitrile	3.12	53	735	0.250	ug/l #	36
16) Acetone	2.44	43	21424	3.210	ug/l	99
18) Methyl Acetate	2.76	43	5640	0.674	ug/l	94
20) Methylene Chloride	2.85	84	12772	2.179	ug/l	95
25) 2-Butanone	4.68	43	6078	1.397	ug/l #	68
29) Tetrahydrofuran	5.14	42	885	0.344	ug/l #	56
36) 1,1-Dichloropropene	5.65	75	34791	4.593	ug/l #	51
38) Carbon Tetrachloride	5.66	117	46239	6.633	ug/l #	16
41) Methacrylonitrile	5.01	41	1080	0.246	ug/l #	34
43) Isopropyl Acetate	6.43	43	139129	10.467	ug/l	99
48) Methyl methacrylate	7.67	41	7637	1.200	ug/l #	15
49) 1,4-Dioxane	7.73	88	170	1.260	ug/l #	23
51) 4-Methyl-2-Pentanone	8.61	43	127157	15.699	ug/l #	51
54) cis-1,3-Dichloropropene	8.61	75	60091	6.564	ug/l #	57
59) 2-Hexanone	9.43	43	130404	20.348	ug/l #	23
74) N-amyl acetate	10.82	43	6524	0.610	ug/l #	49
76) 1,2,3-Trichloropropane	11.13	75	163679	22.918	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	163679	60.591	ug/l #	12
88) 1,4-Dichlorobenzene	12.23	146	439	Below Cal		84
93) 1,2,4-Trichlorobenzene	13.65	180	310	Below Cal	#	63
96) 1,2,3-Trichlorobenzene	14.02	180	193	Below Cal	#	24

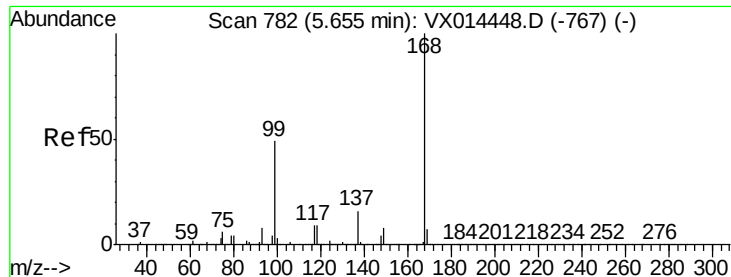
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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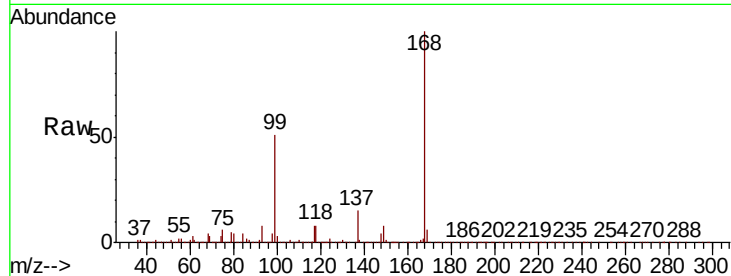


#1

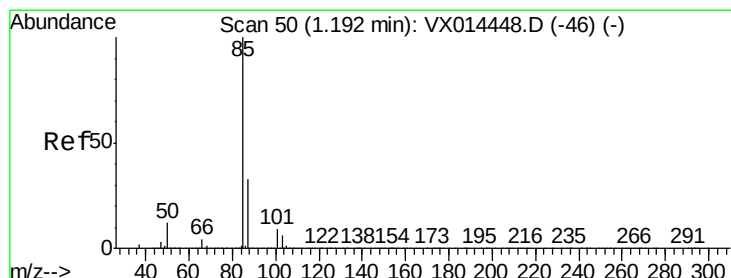
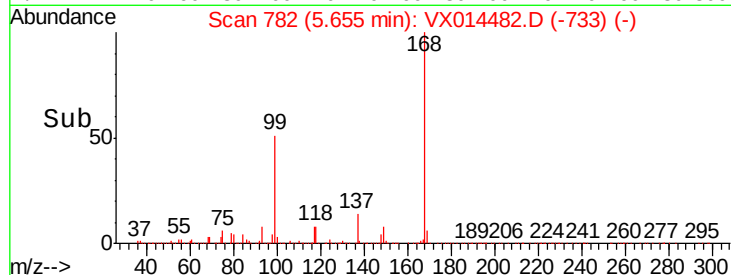
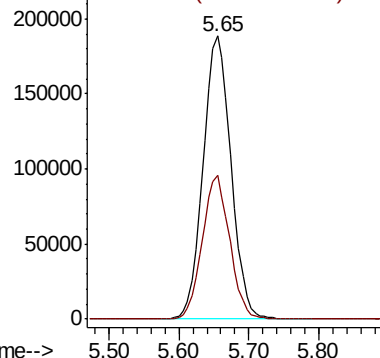
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.00 min
Lab File: VX014482.D
Acq: 08 Jan 2020 19:27

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 521808
Ion Ratio Lower Upper
168 100
99 50.9 39.2 58.8



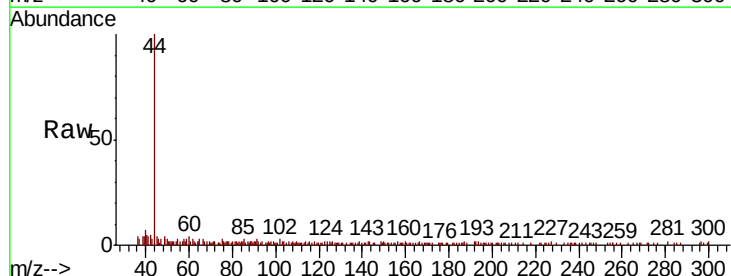
Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VX0



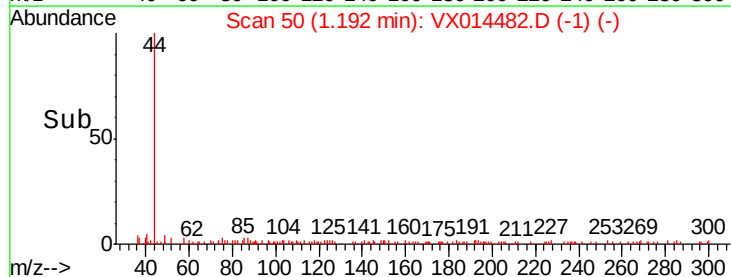
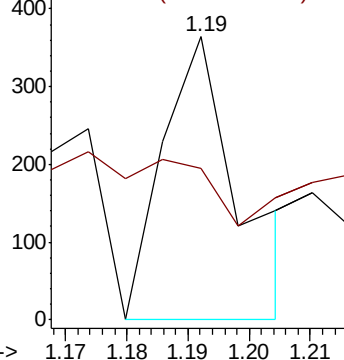
#2

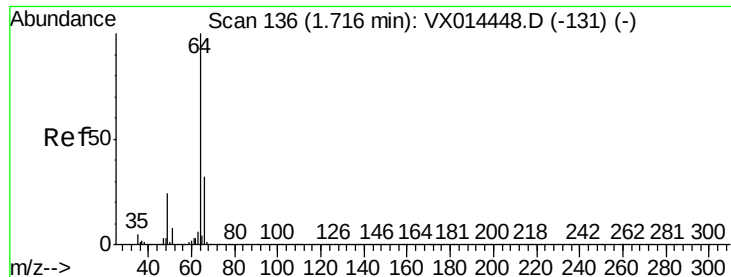
Dichlorodifluoromethane
Concen: 0.300 ug/l
RT: 1.19 min Scan# 50
Delta R.T. 0.00 min
Lab File: VX014482.D
Acq: 08 Jan 2020 19:27

Tgt Ion: 85 Resp: 312
Ion Ratio Lower Upper
85 100
87 3.8 16.5 49.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0
Ion 86.90 (86.60 to 87.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.78 min Scan# 146

Delta R.T. 0.06 min

Lab File: VX014482.D

Acq: 08 Jan 2020 19:27

Instrument :

MSVOA_X

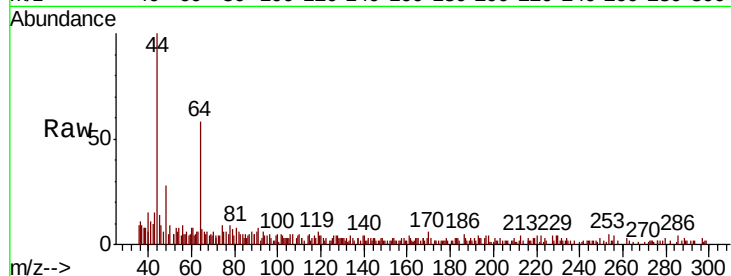
ClientSampled :

Tot Ion: 64 Resp: 1197

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.78

2500

2000

1500

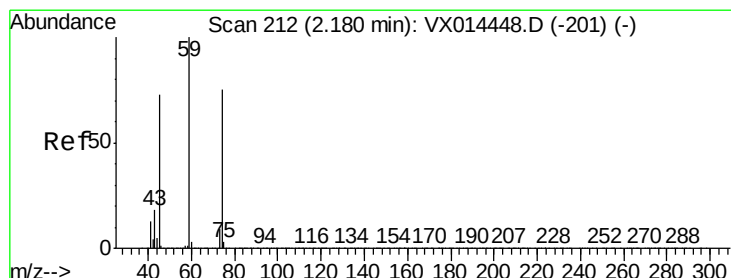
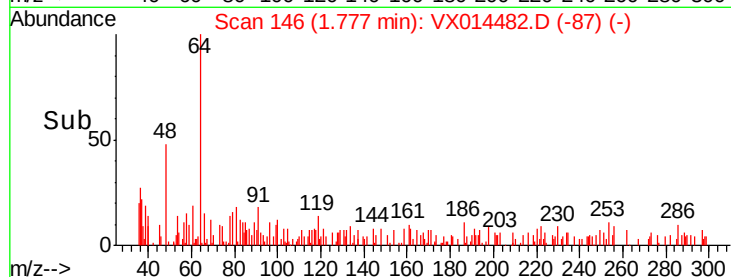
1000

500

0

1.76 1.78 1.80 1.82

Time-->



#8

Diethyl Ether

Concen: 0.263 ug/l

RT: 2.18 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX014482.D

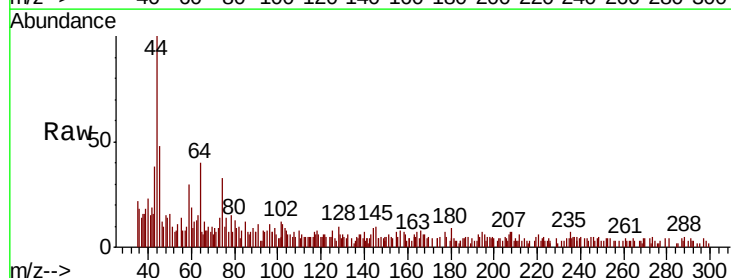
Acq: 08 Jan 2020 19:27

Tgt Ion: 74 Resp: 1010

Ion Ratio Lower Upper

74 100

45 124.4 48.7 146.1



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.18

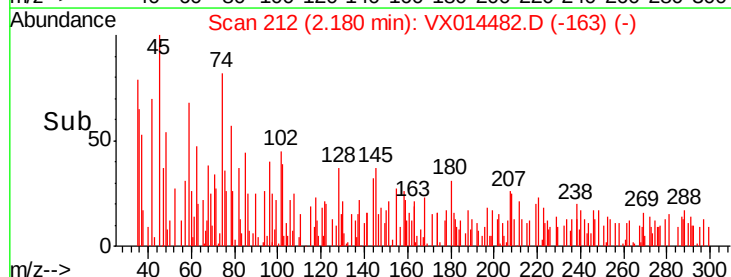
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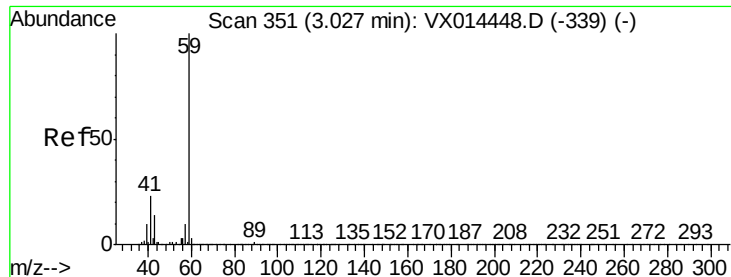
500

0

2.14 2.16 2.18 2.20

Time-->

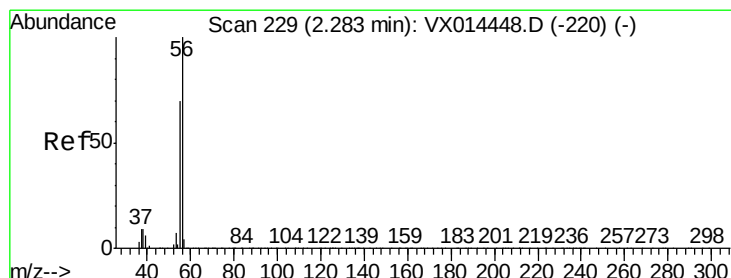
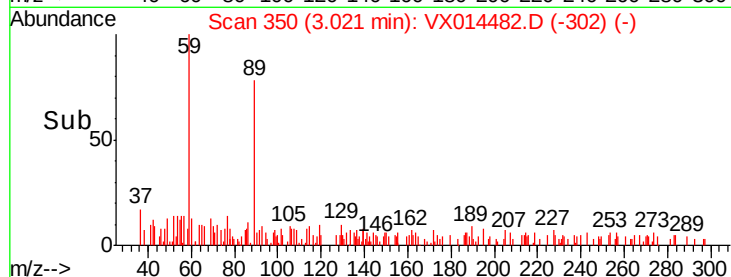
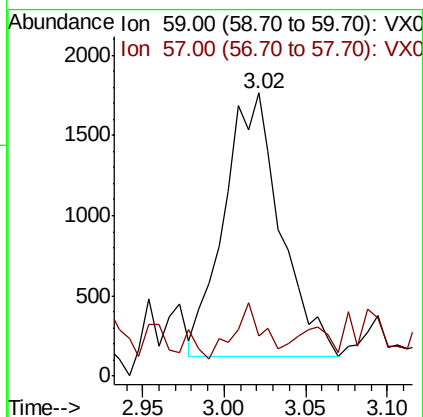
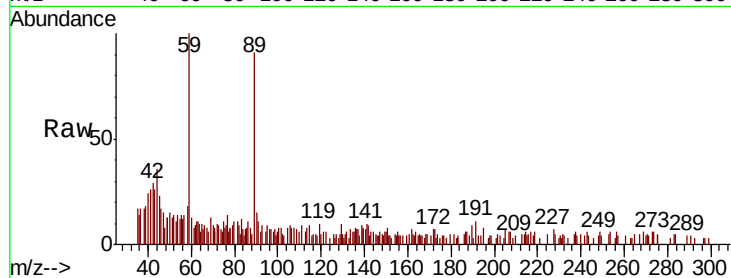




#11
Tert butyl alcohol
Concen: 3.264 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.01 min
Lab File: VX014482.D
Acq: 08 Jan 2020 19:27

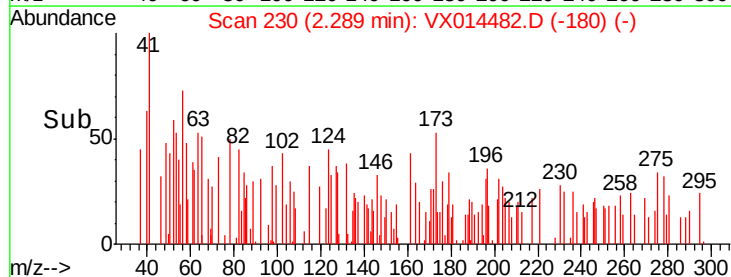
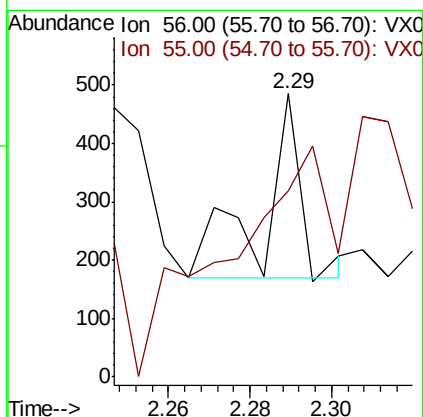
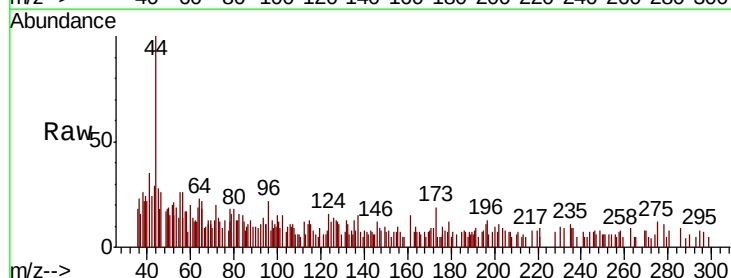
Instrument :
MSVOA_X
ClientSampleId :

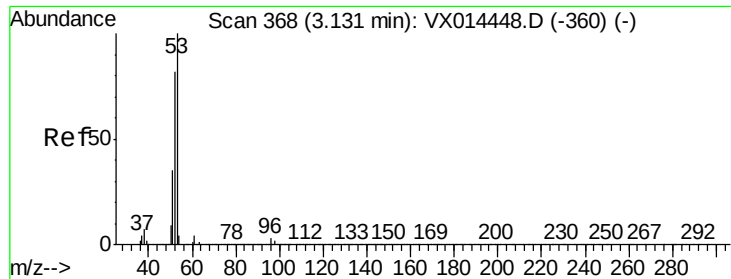
Tot Ion: 59 Resp: 3970
Ion Ratio Lower Upper
59 100
57 14.5 8.5 12.7#



#13
Acrolein
Concen: 0.216 ug/l
RT: 2.29 min Scan# 230
Delta R.T. 0.01 min
Lab File: VX014482.D
Acq: 08 Jan 2020 19:27

Tgt Ion: 56 Resp: 211
Ion Ratio Lower Upper
56 100
55 338.9 55.0 82.6#





#15

Acrylonitrile

Concen: 0.250 ug/l

RT: 3.12 min Scan# 367

Delta R.T. -0.01 min

Lab File: VX014482.D

Acq: 08 Jan 2020 19:27

Instrument :

MSVOA_X

ClientSampled :

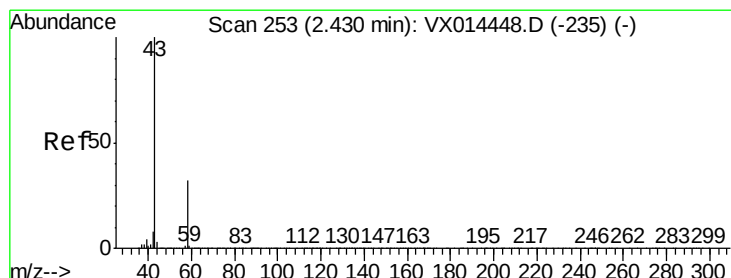
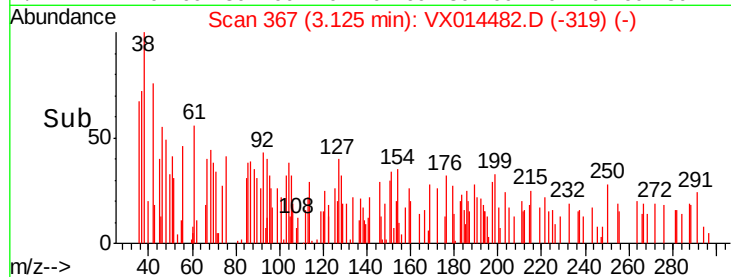
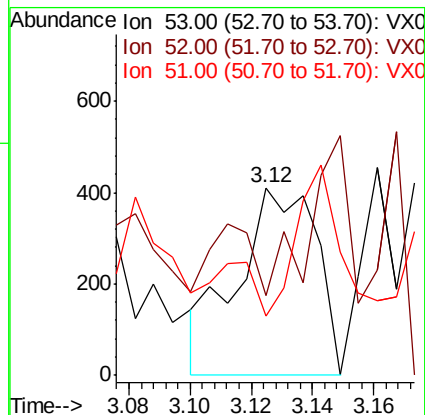
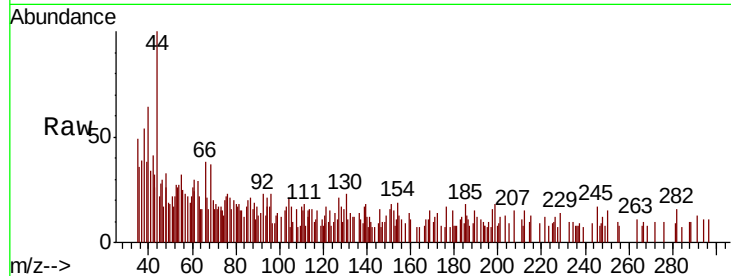
Tot Ion: 53 Resp: 735

Ion Ratio Lower Upper

53 100

52 25.2 67.0 100.4#

51 0.0 28.5 42.7#



#16

Acetone

Concen: 3.210 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX014482.D

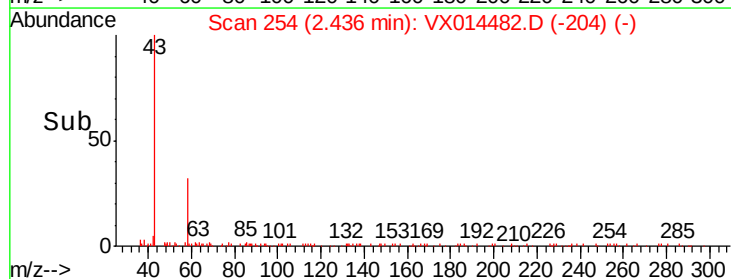
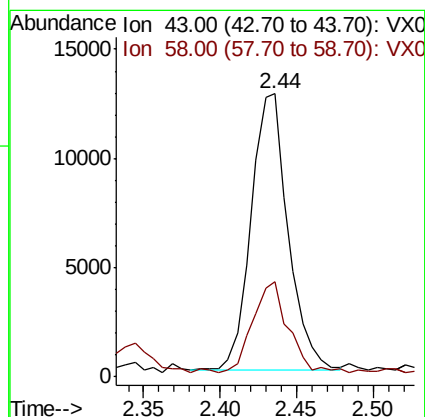
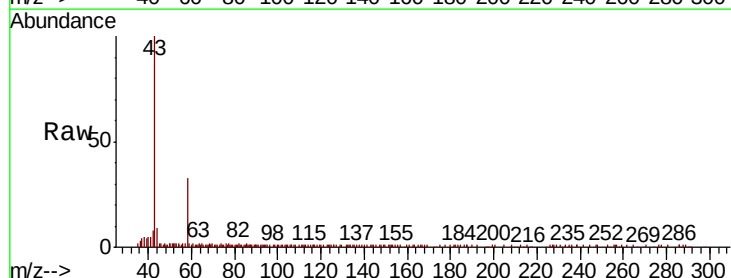
Acq: 08 Jan 2020 19:27

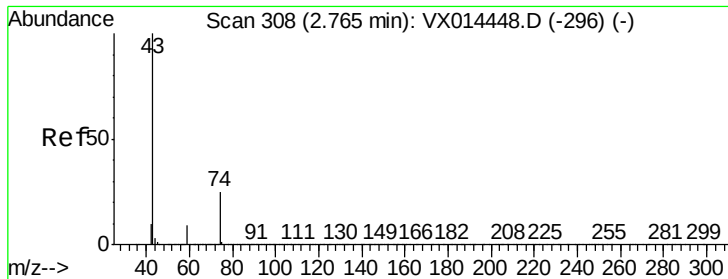
Tgt Ion: 43 Resp: 21424

Ion Ratio Lower Upper

43 100

58 31.4 25.4 38.0

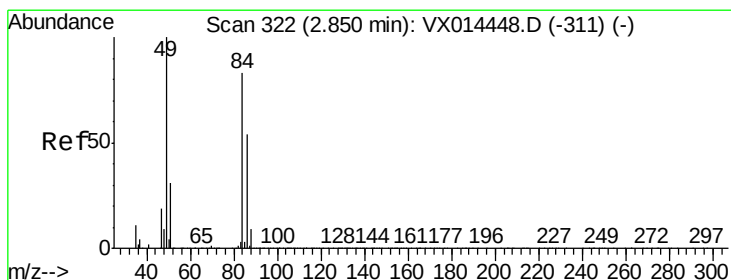
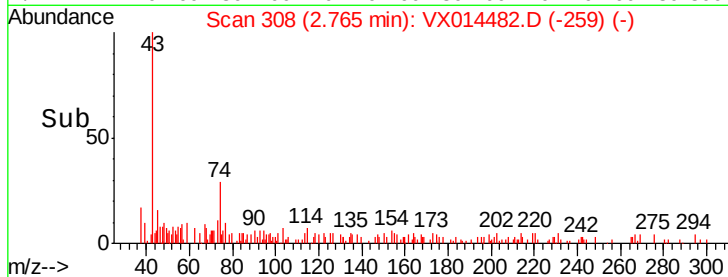
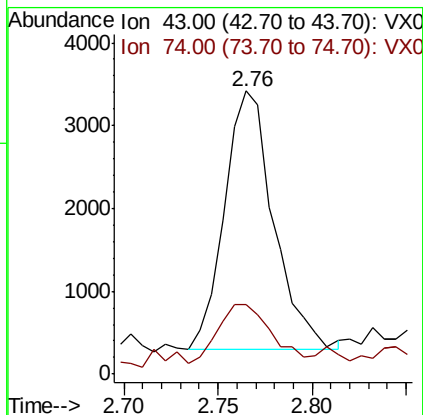
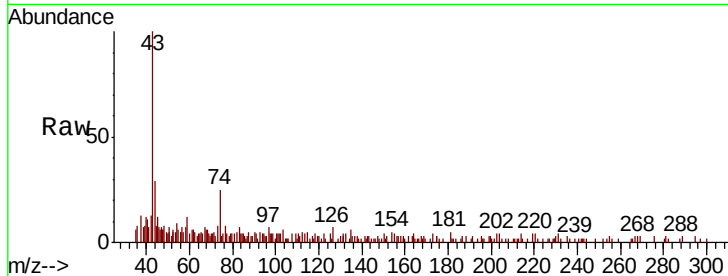




#18
Methyl Acetate
Concen: 0.674 ug/l
RT: 2.76 min Scan# 308
Delta R.T. 0.00 min
Lab File: VX014482.D
Acq: 08 Jan 2020 19:27

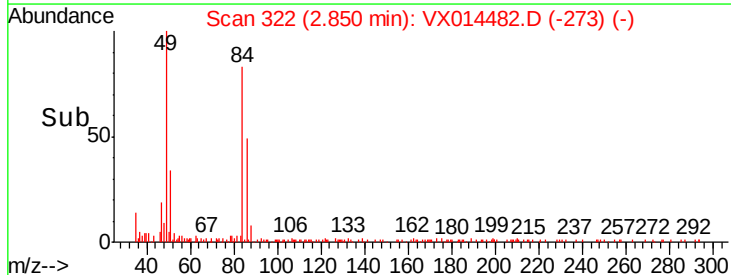
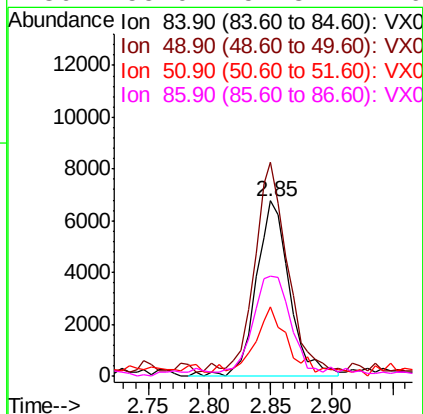
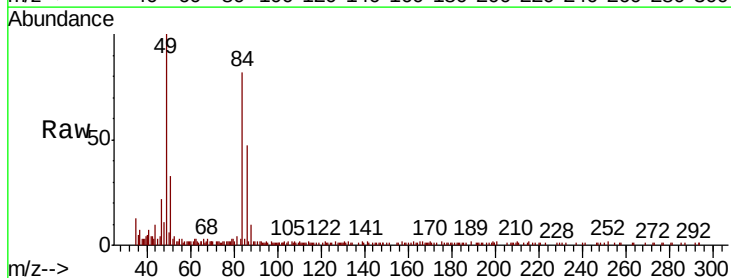
Instrument :
MSVOA_X
ClientSampleId :

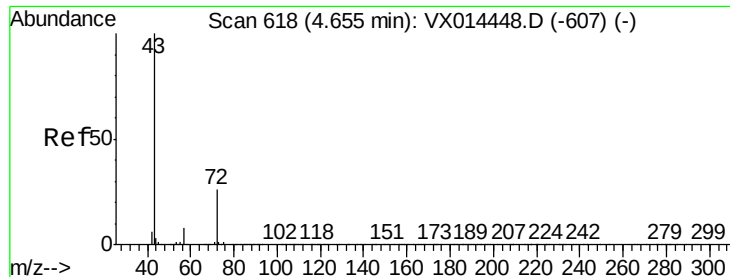
Tot Ion: 43 Resp: 5640
Ion Ratio Lower Upper
43 100
74 27.2 19.4 29.2



#20
Methylene Chloride
Concen: 2.179 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014482.D
Acq: 08 Jan 2020 19:27

Tgt Ion: 84 Resp: 12772
Ion Ratio Lower Upper
84 100
49 117.3 95.8 143.8
51 35.9 30.2 45.4
86 55.0 51.8 77.6

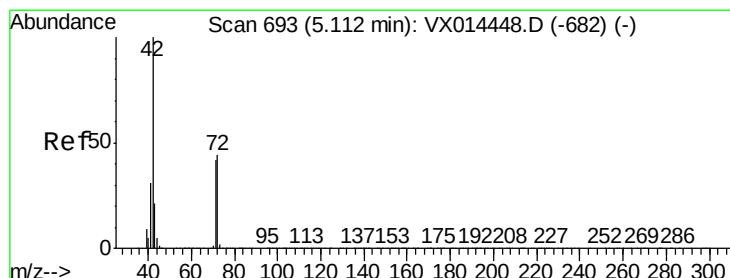
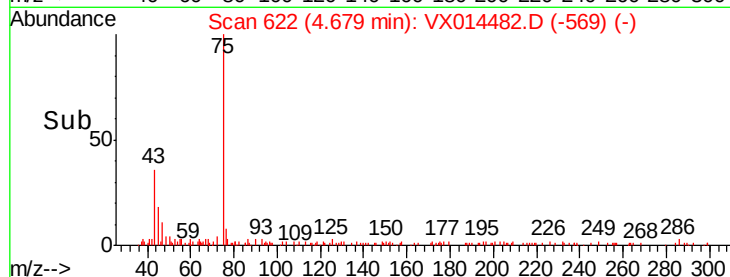
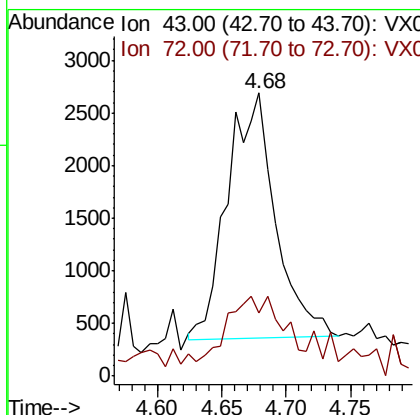
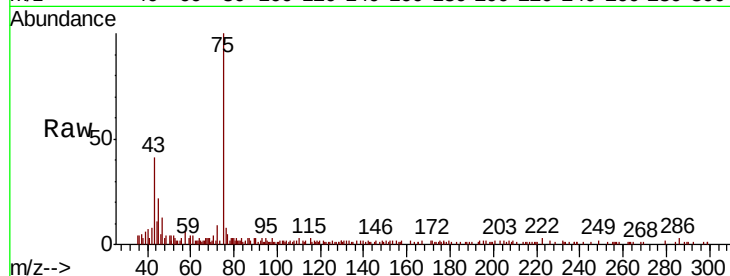




#25
2-Butanone
Concen: 1.397 ug/l
RT: 4.68 min Scan# 622
Delta R.T. 0.02 min
Lab File: VX014482.D
Acq: 08 Jan 2020 19:27

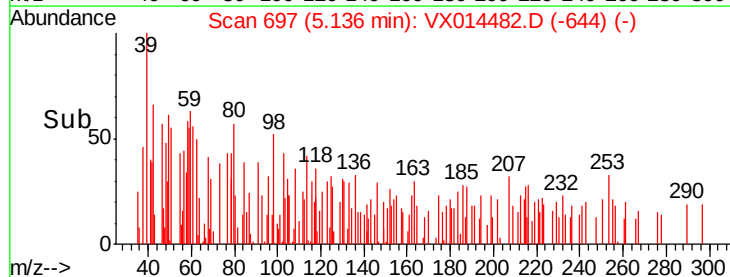
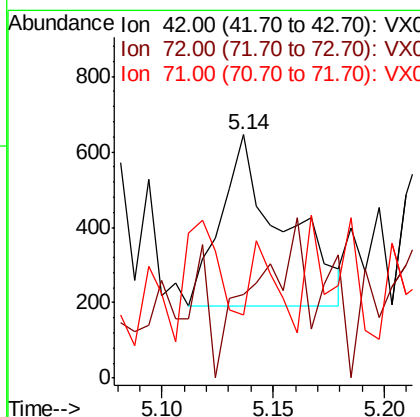
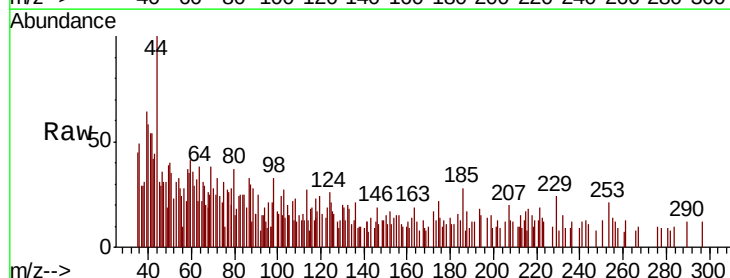
Instrument :
MSVOA_X
ClientSampled :

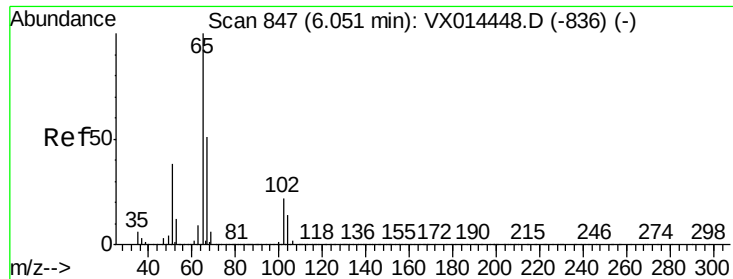
Tot Ion: 43 Resp: 6078
Ion Ratio Lower Upper
43 100
72 9.7 20.6 31.0#



#29
Tetrahydrofuran
Concen: 0.344 ug/l
RT: 5.14 min Scan# 697
Delta R.T. 0.02 min
Lab File: VX014482.D
Acq: 08 Jan 2020 19:27

Tgt Ion: 42 Resp: 885
Ion Ratio Lower Upper
42 100
72 0.0 36.2 54.4#
71 31.4 34.1 51.1#

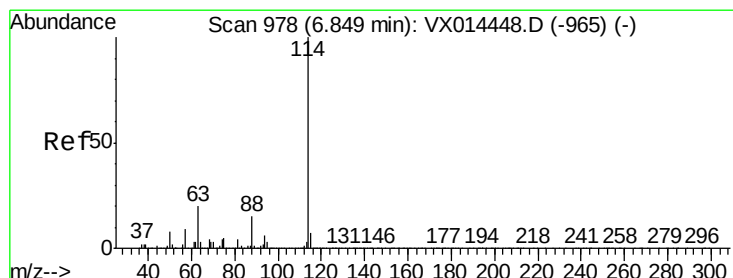
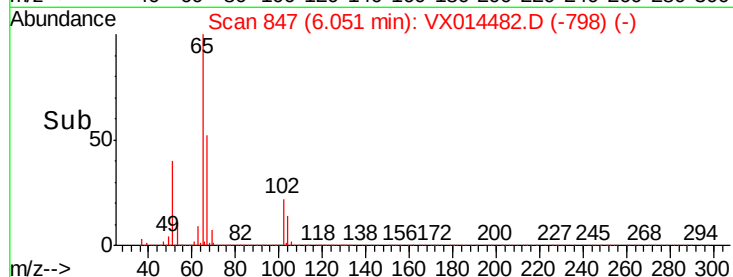
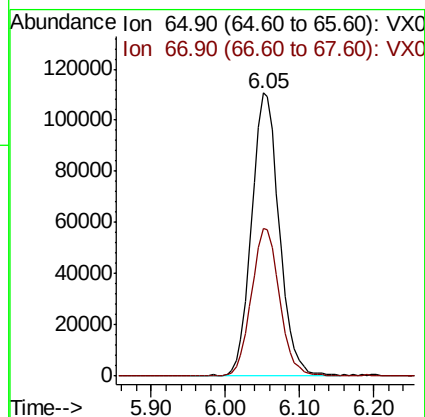
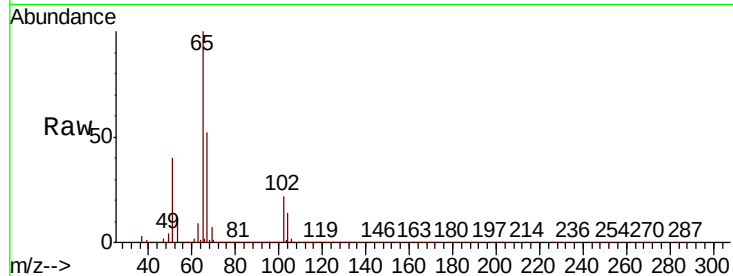




#33
 1,2-Dichloroethane-d4
 Concen: 49.404 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX014482.D
 Acq: 08 Jan 2020 19:27

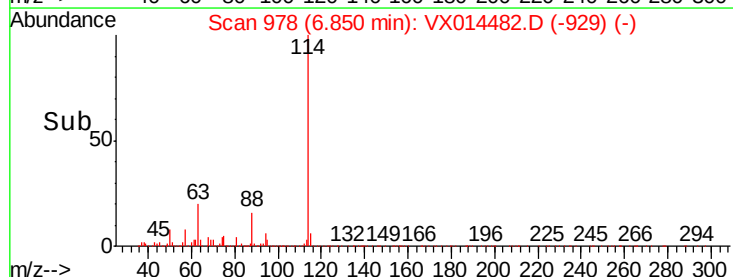
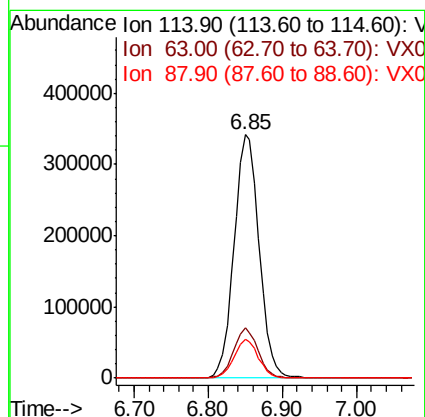
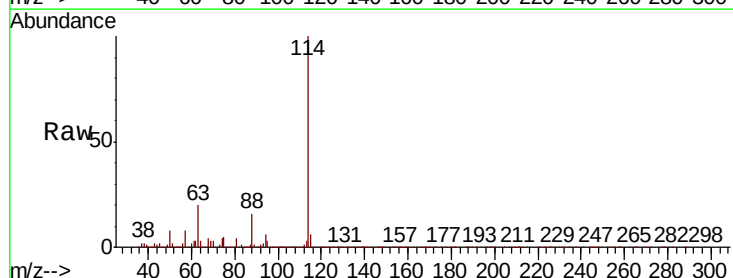
Instrument :
 MSVOA_X
 ClientSampleId :

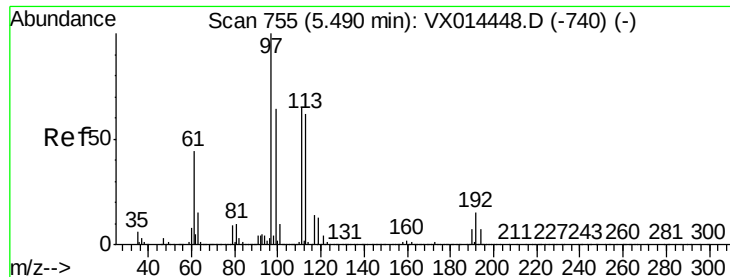
Tot Ion: 65 Resp: 287785
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX014482.D
 Acq: 08 Jan 2020 19:27

Tgt Ion: 114 Resp: 805500
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 39.6
 88 15.9 0.0 30.8





#35

Dibromofluoromethane

Concen: 49.091 ug/l

RT: 5.49 min Scan# 755

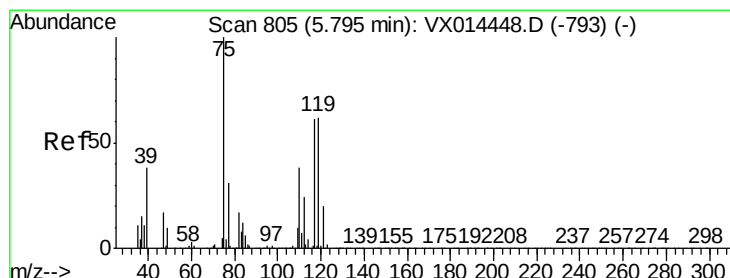
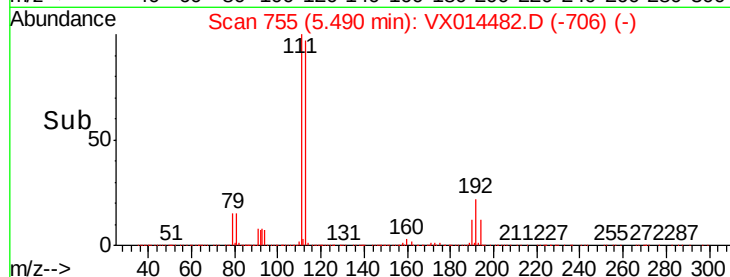
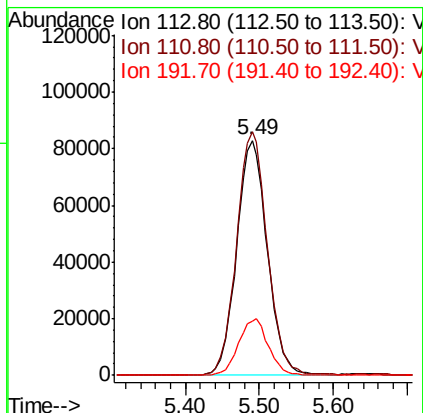
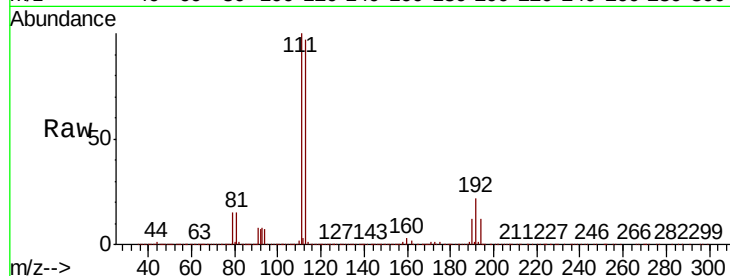
Delta R.T. 0.00 min

Lab File: VX014482.D

Acq: 08 Jan 2020 19:27

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	113	Resp:	239370
Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.5	122.3
192	23.5	19.2	28.8



#36

1,1-Dichloropropene

Concen: 4.593 ug/l

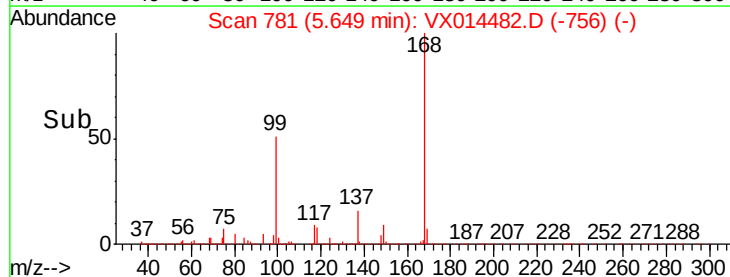
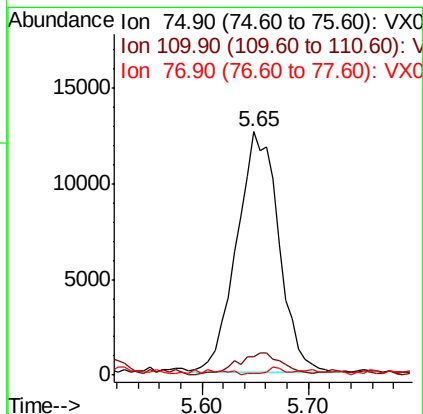
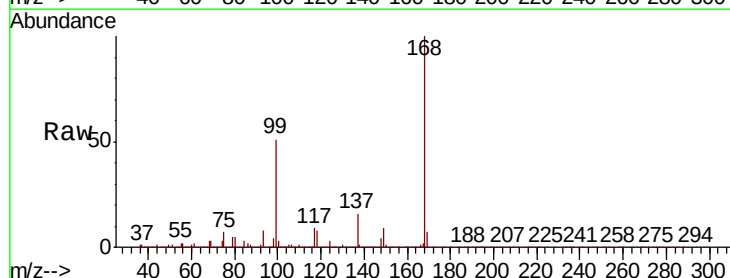
RT: 5.65 min Scan# 781

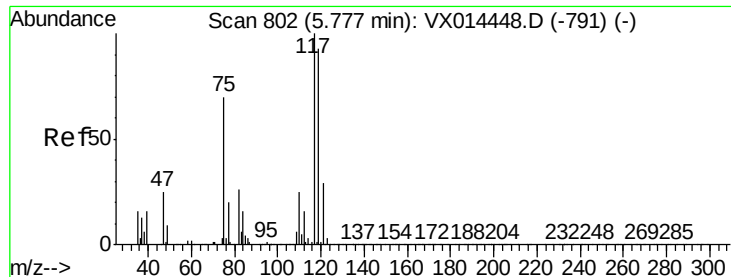
Delta R.T. -0.15 min

Lab File: VX014482.D

Acq: 08 Jan 2020 19:27

Tgt Ion:	75	Resp:	34791
Ion	Ratio	Lower	Upper
75	100		
110	10.2	18.6	55.8#
77	0.8	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 6.633 ug/l

RT: 5.66 min Scan# 783

Delta R.T. -0.12 min

Lab File: VX014482.D

Acq: 08 Jan 2020 19:27

Instrument :

MSVOA_X

ClientSampled :

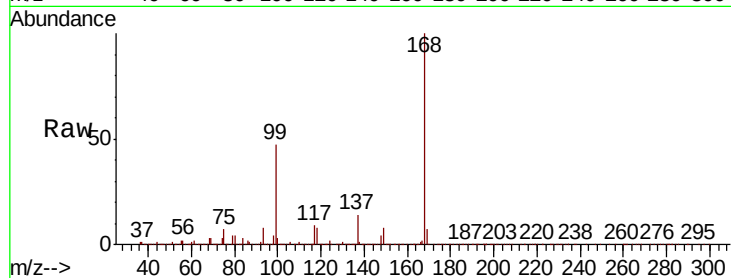
Tot Ion:117 Resp: 46239

Ion Ratio Lower Upper

117 100

119 2.7 73.8 110.8#

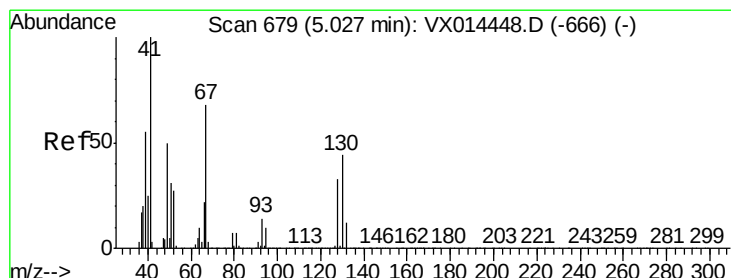
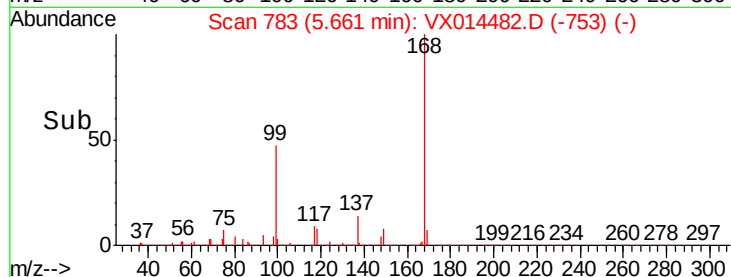
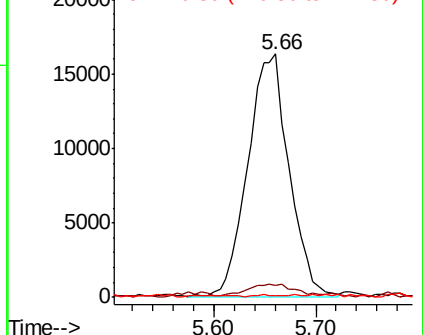
121 0.3 23.4 35.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.246 ug/l

RT: 5.01 min Scan# 676

Delta R.T. -0.02 min

Lab File: VX014482.D

Acq: 08 Jan 2020 19:27

Tgt Ion: 41 Resp: 1080

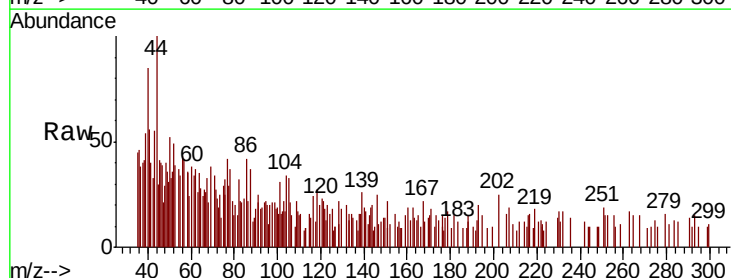
Ion Ratio Lower Upper

41 100

39 21.6 43.6 65.4#

67 0.0 57.9 86.9#

52 0.0 23.0 34.6#

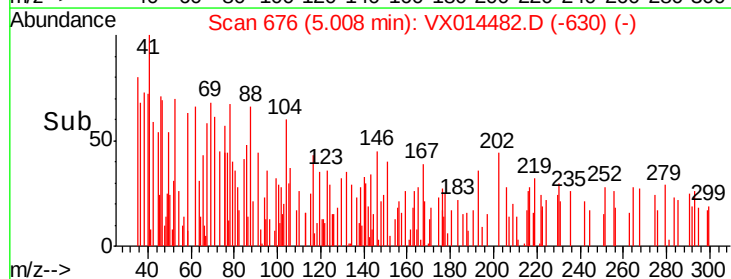
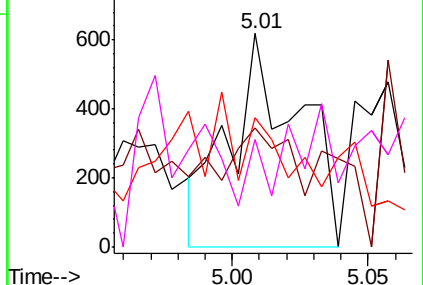


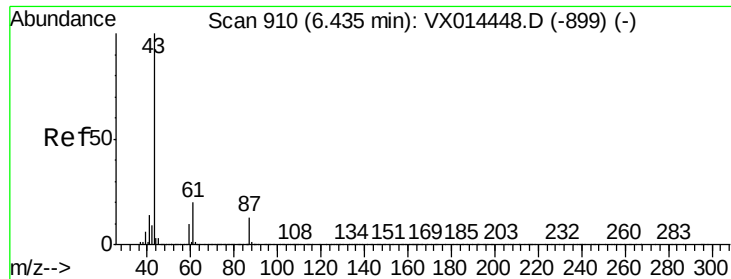
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#43

Isopropyl Acetate

Concen: 10.467 ug/l

RT: 6.43 min Scan# 910

Delta R.T. 0.00 min

Lab File: VX014482.D

Acq: 08 Jan 2020 19:27

Instrument :

MSVOA_X

ClientSampleId :

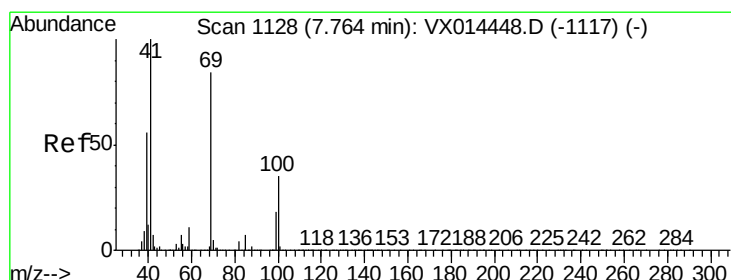
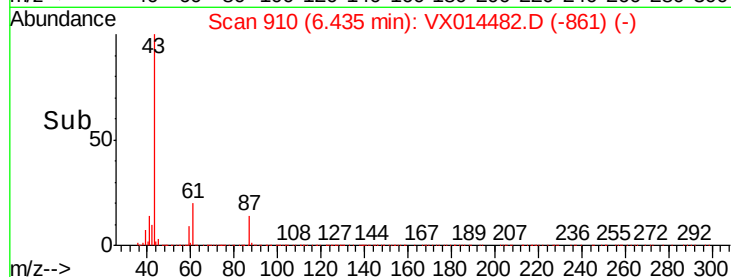
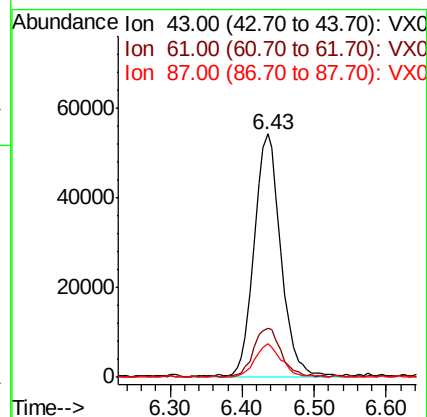
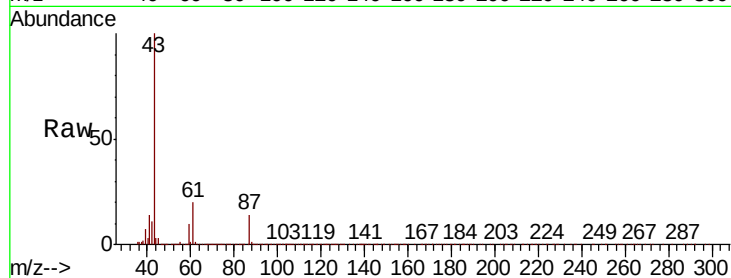
Tot Ion: 43 Resp: 139129

Ion Ratio Lower Upper

43 100

61 20.4 16.6 24.8

87 13.3 10.8 16.2



#48

Methyl methacrylate

Concen: 1.200 ug/l

RT: 7.67 min Scan# 1112

Delta R.T. -0.10 min

Lab File: VX014482.D

Acq: 08 Jan 2020 19:27

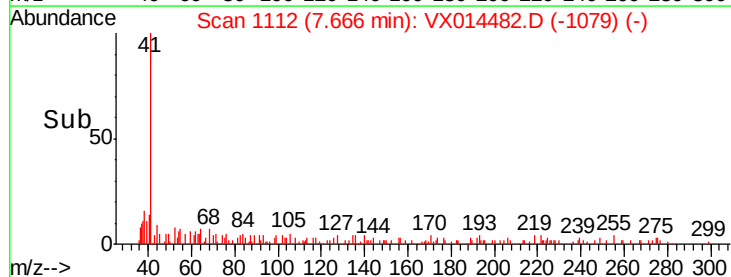
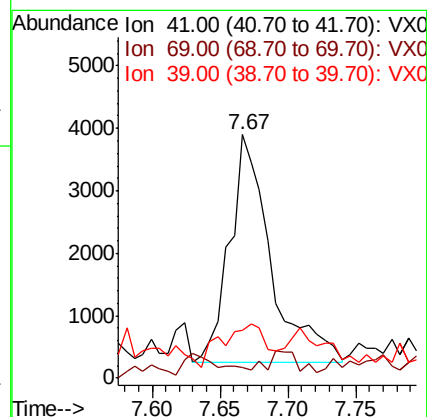
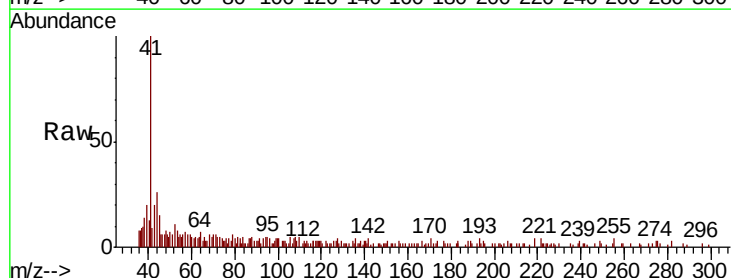
Tgt Ion: 41 Resp: 7637

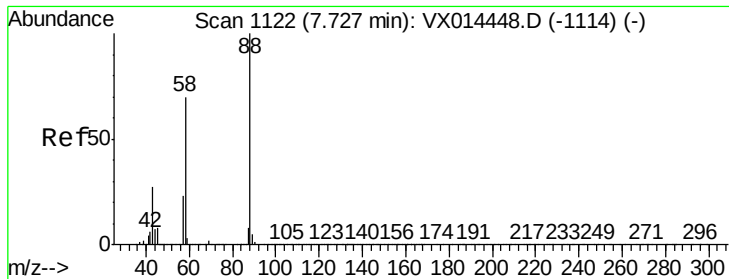
Ion Ratio Lower Upper

41 100

69 0.0 65.5 98.3#

39 0.0 43.9 65.9#





#49

1,4-Dioxane

Concen: 1.260 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.01 min

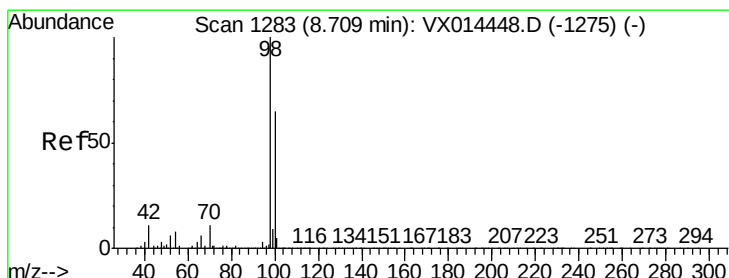
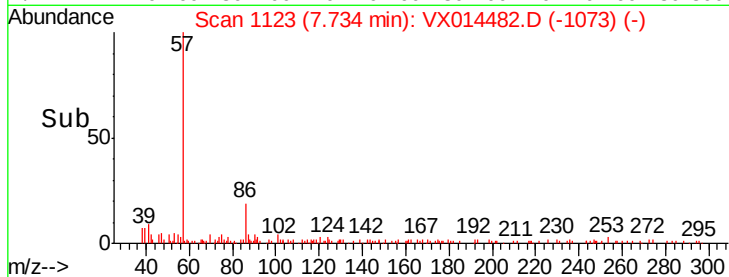
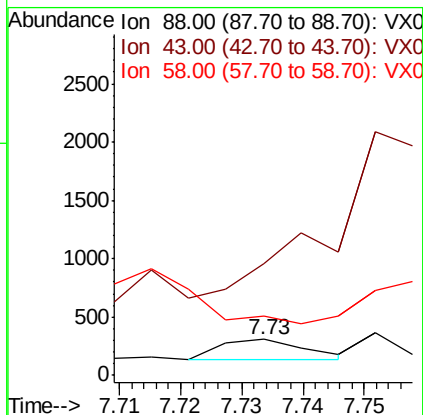
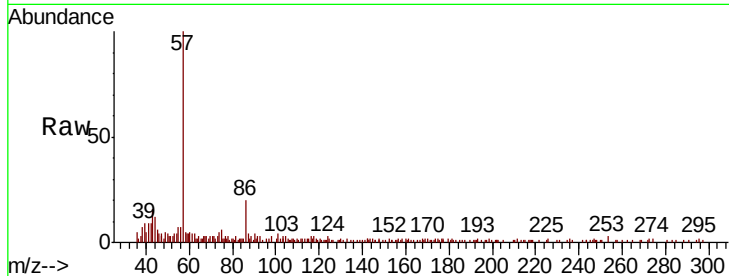
Lab File: VX014482.D

Acq: 08 Jan 2020 19:27

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 88 Resp: 170

Ion	Ratio	Lower	Upper
88	100		
43	0.0	27.4	41.0#
58	0.0	57.1	85.7#



#50

Toluene-d8

Concen: 51.119 ug/l

RT: 8.71 min Scan# 1283

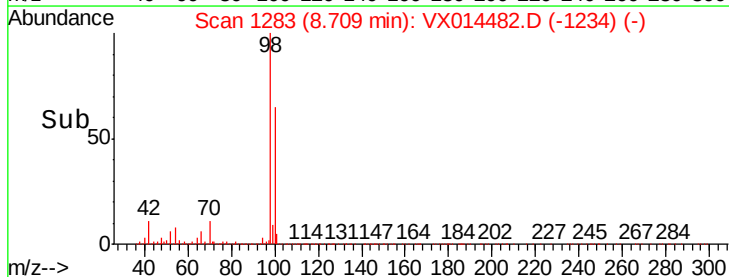
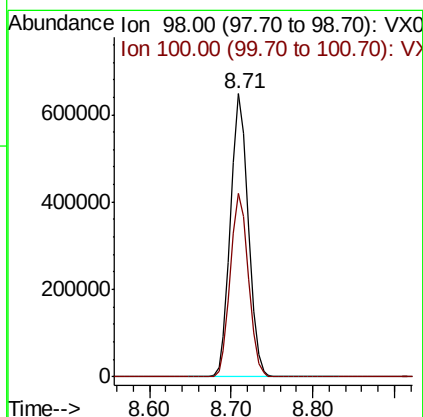
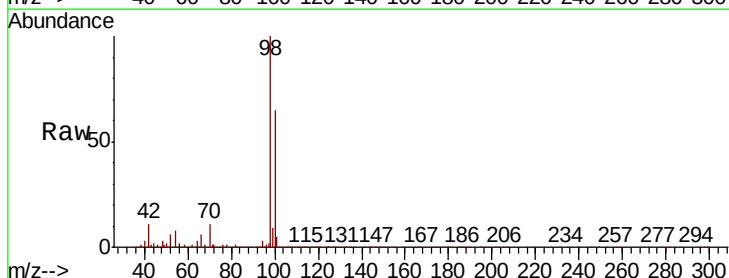
Delta R.T. 0.00 min

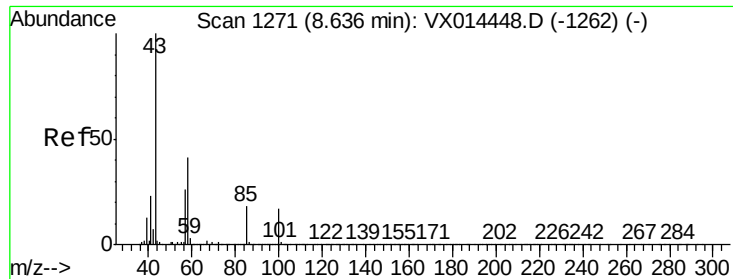
Lab File: VX014482.D

Acq: 08 Jan 2020 19:27

Tgt Ion: 98 Resp: 967296

Ion	Ratio	Lower	Upper
98	100		
100	65.7	53.2	79.8

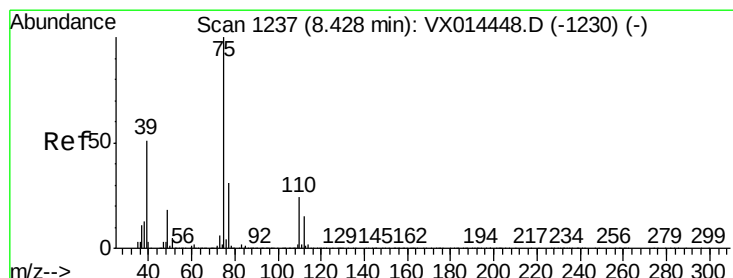
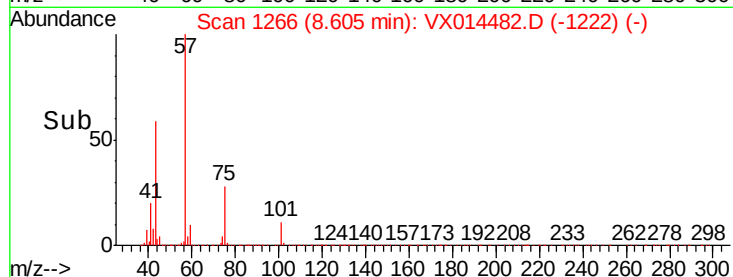
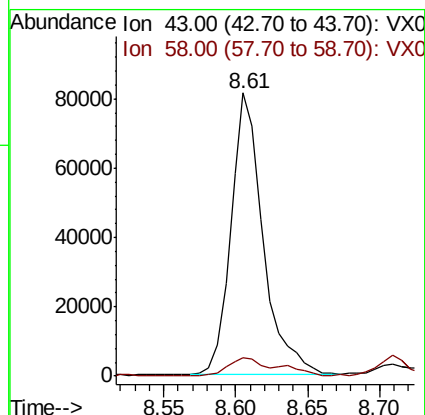
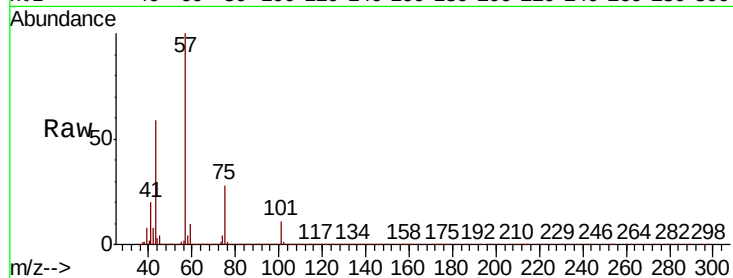




#51
 4-Methyl-2-Pentanone
 Concen: 15.699 ug/l
 RT: 8.61 min Scan# 1266
 Delta R.T. -0.03 min
 Lab File: VX014482.D
 Acq: 08 Jan 2020 19:27

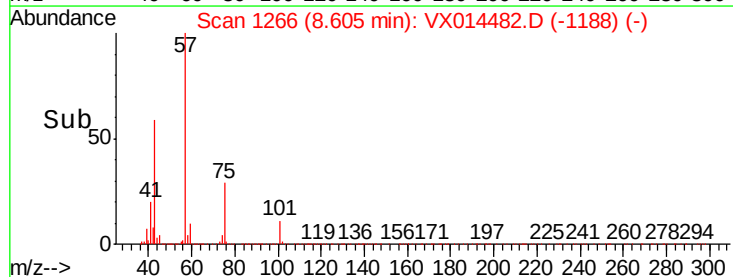
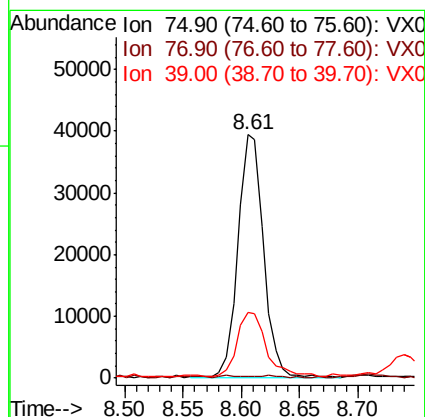
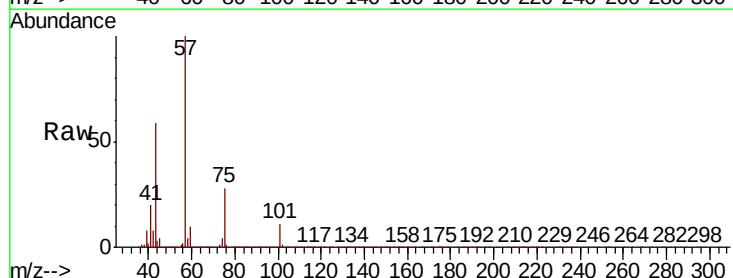
Instrument :
 MSVOA_X
 ClientSampleId :

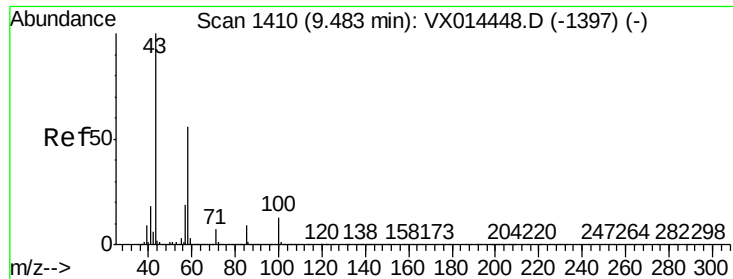
Tot Ion: 43 Resp: 127157
 Ion Ratio Lower Upper
 43 100
 58 10.1 32.4 48.6#



#54
 cis-1,3-Dichloropropene
 Concen: 6.564 ug/l
 RT: 8.61 min Scan# 1266
 Delta R.T. 0.18 min
 Lab File: VX014482.D
 Acq: 08 Jan 2020 19:27

Tgt Ion: 75 Resp: 60091
 Ion Ratio Lower Upper
 75 100
 77 0.2 25.0 37.4#
 39 26.2 40.7 61.1#

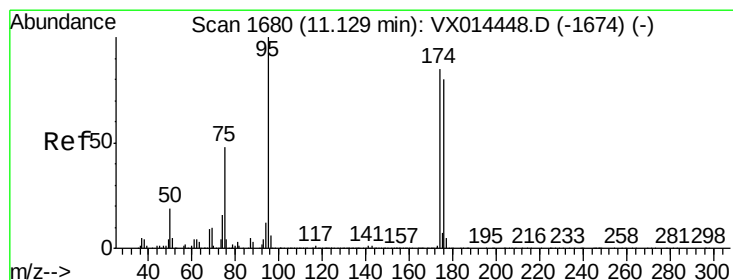
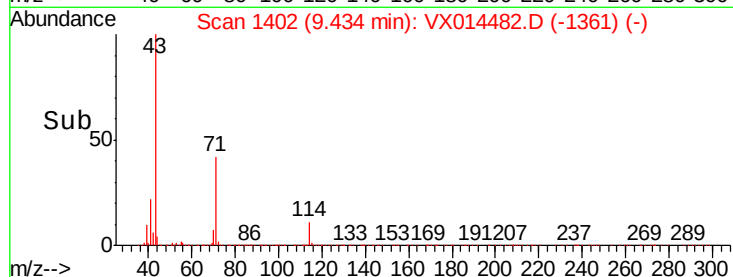
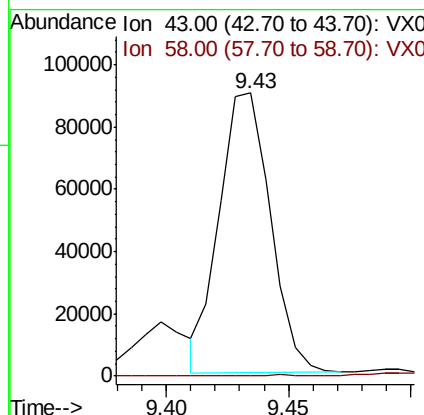
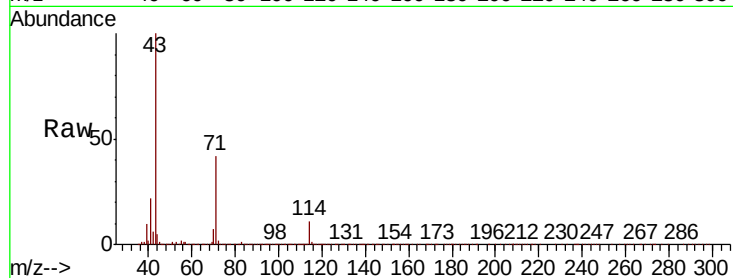




#59
2-Hexanone
Concen: 20.348 ug/l
RT: 9.43 min Scan# 1402
Delta R.T. -0.05 min
Lab File: VX014482.D
Acq: 08 Jan 2020 19:27

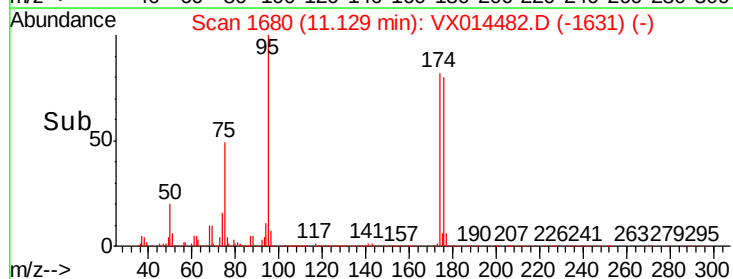
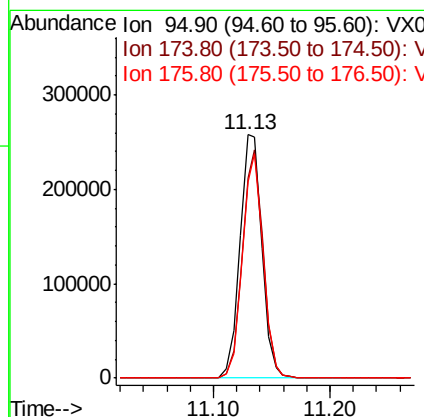
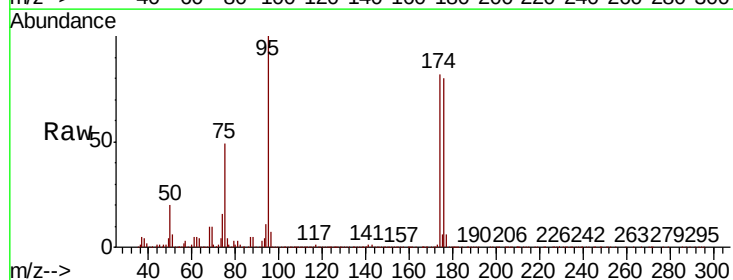
Instrument :
MSVOA_X
ClientSampled :

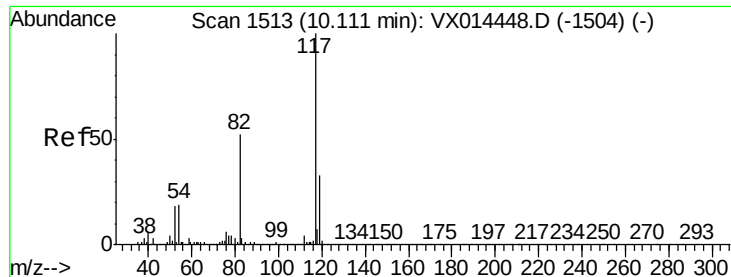
Tot Ion: 43 Resp: 130404
Ion Ratio Lower Upper
43 100
58 0.0 27.9 83.7#



#62
4-Bromofluorobenzene
Concen: 48.728 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX014482.D
Acq: 08 Jan 2020 19:27

Tgt Ion: 95 Resp: 338494
Ion Ratio Lower Upper
95 100
174 89.2 0.0 180.8
176 86.8 0.0 172.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014482.D

Acq: 08 Jan 2020 19:27

Instrument :

MSVOA_X

ClientSampleId :

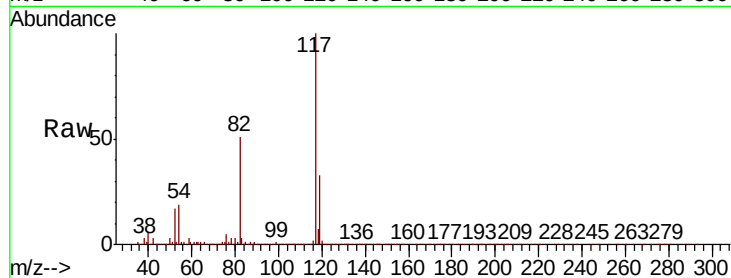
Tot Ion:117 Resp: 747846

Ion Ratio Lower Upper

117 100

82 51.5 41.8 62.6

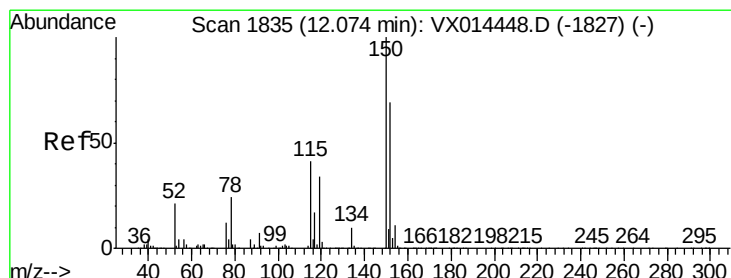
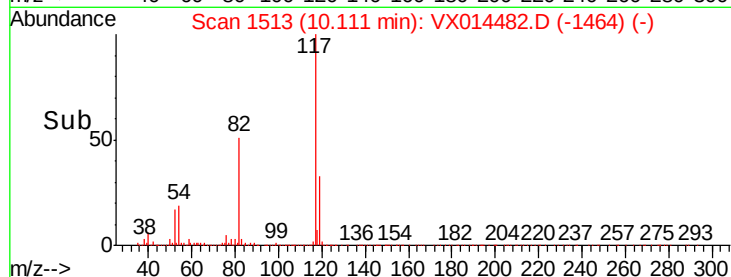
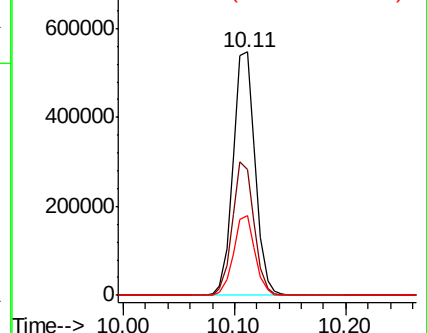
119 32.7 26.2 39.4



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# 1835

Delta R.T. 0.00 min

Lab File: VX014482.D

Acq: 08 Jan 2020 19:27

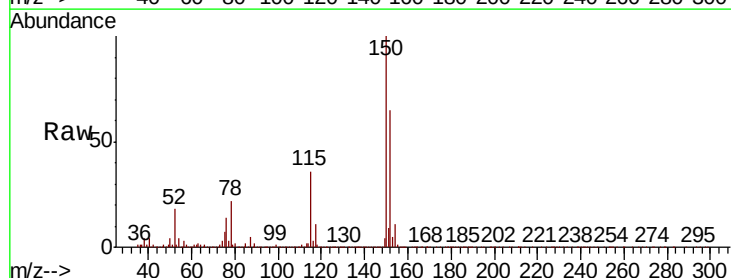
Tgt Ion:152 Resp: 345183

Ion Ratio Lower Upper

152 100

115 55.8 39.5 118.3

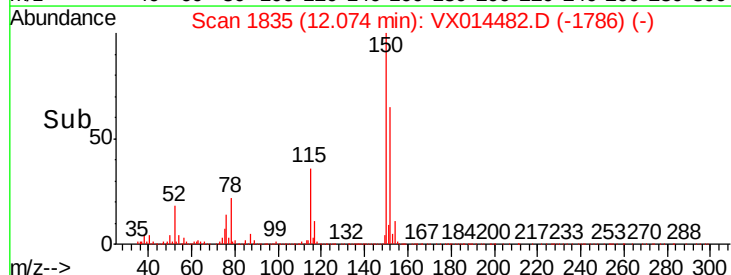
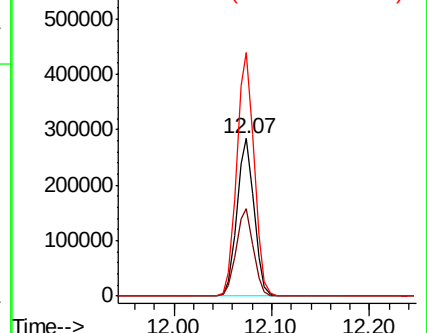
150 156.6 0.0 350.2

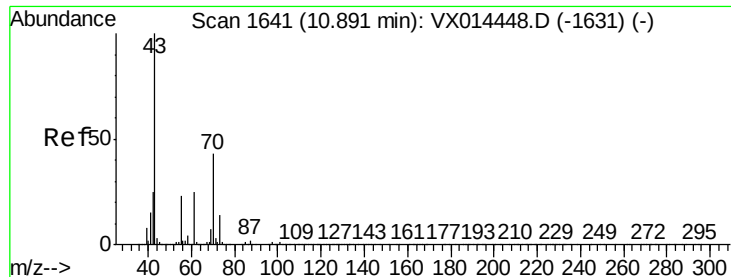


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.610 ug/l

RT: 10.82 min Scan# 1629

Delta R.T. -0.07 min

Lab File: VX014482.D

Acq: 08 Jan 2020 19:27

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 6524

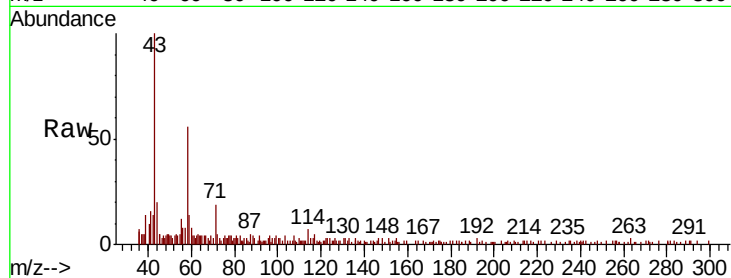
Ion Ratio Lower Upper

43 100

70 2.5 35.1 52.7#

55 9.7 19.3 28.9#

61 0.0 20.0 30.0#

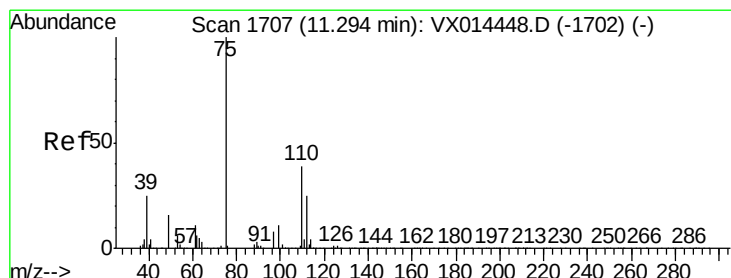
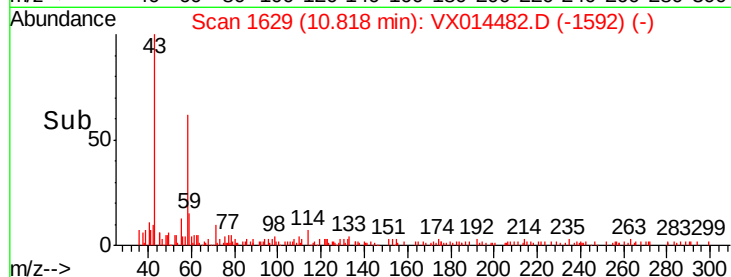
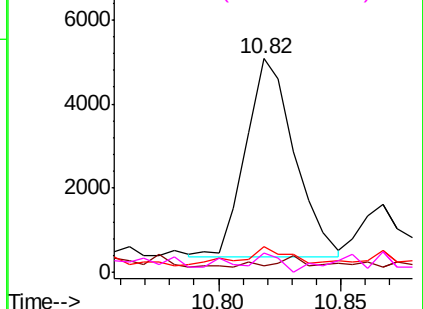


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.918 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014482.D

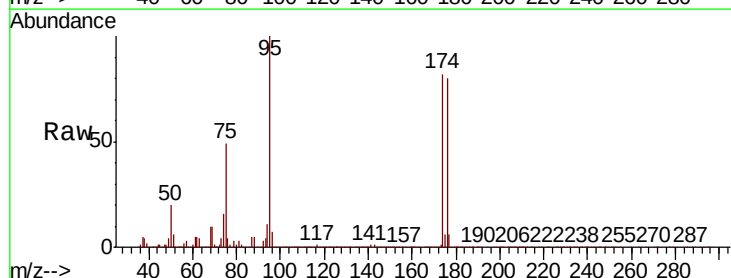
Acq: 08 Jan 2020 19:27

Tgt Ion: 75 Resp: 163679

Ion Ratio Lower Upper

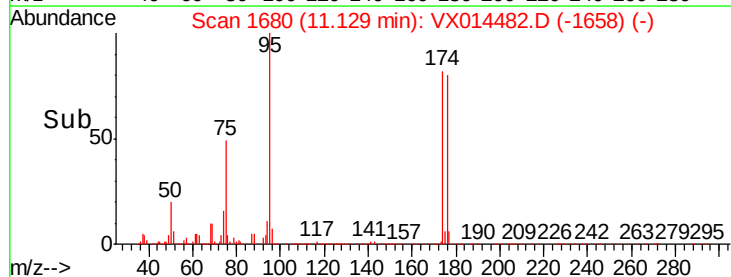
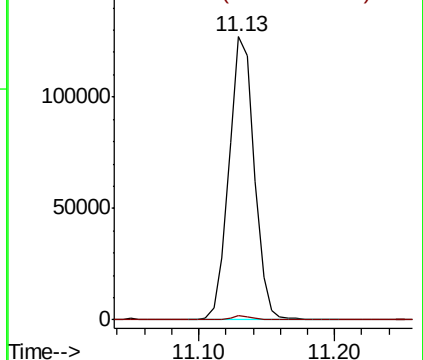
75 100

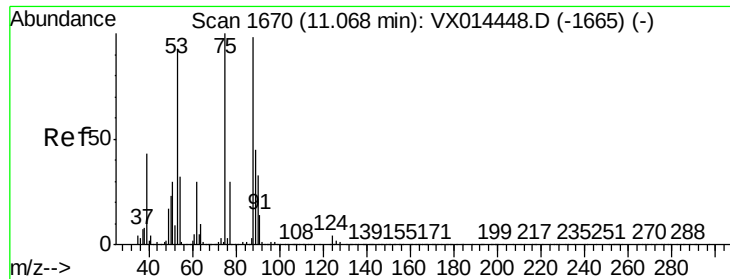
77 1.5 21.9 65.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

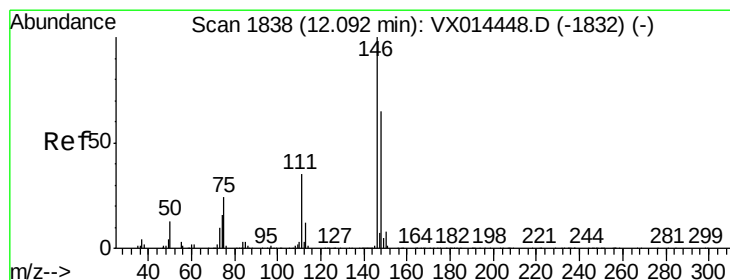
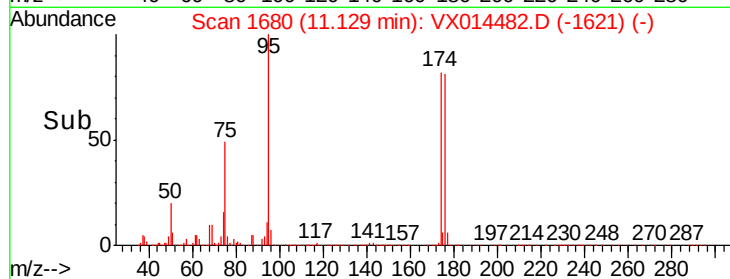
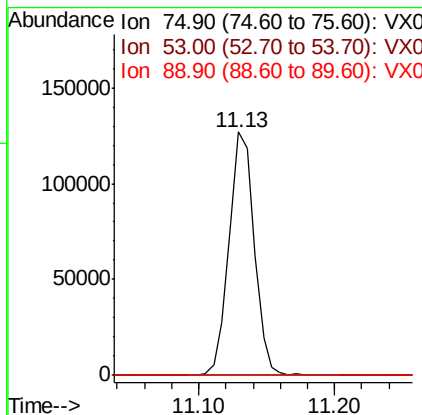
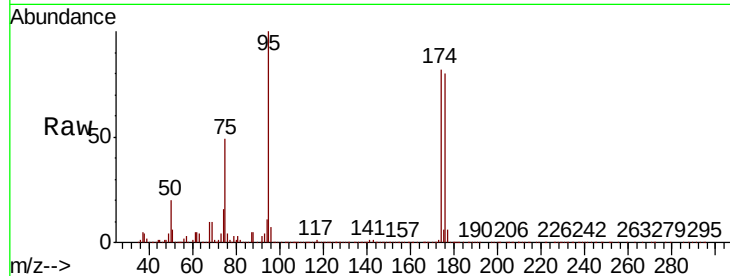




#81
trans-1,4-Dichloro-2-butene
Concen: 60.591 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX014482.D
Acq: 08 Jan 2020 19:27

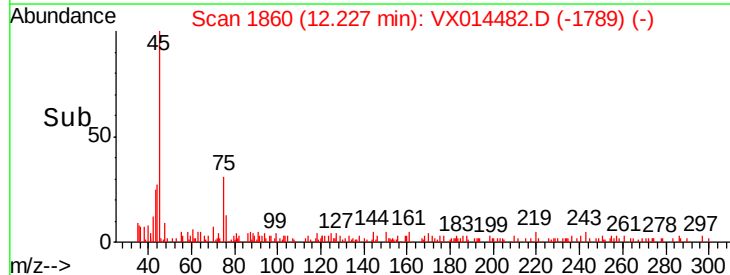
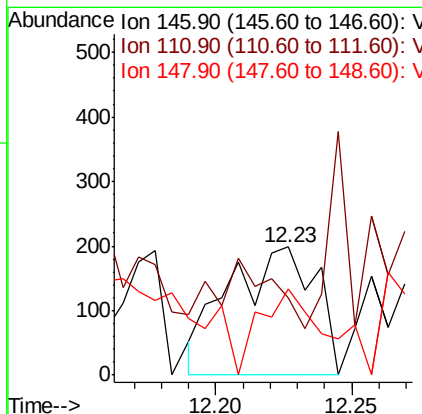
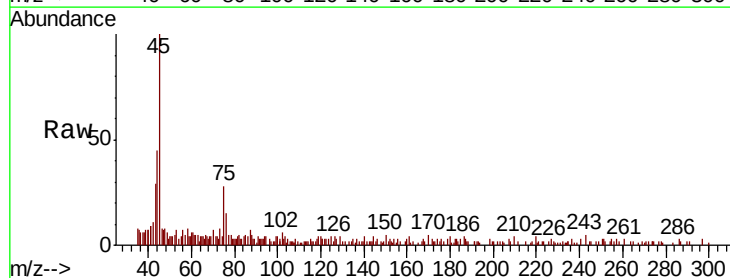
Instrument :
MSVOA_X
ClientSampleId :

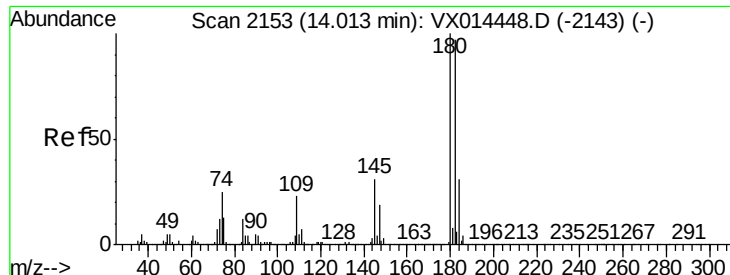
Tot Ion: 75 Resp: 163679
Ion Ratio Lower Upper
75 100
53 0.1 74.8 112.2#
89 0.1 36.3 54.5#



#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 12.23 min Scan# 1860
Delta R.T. 0.13 min
Lab File: VX014482.D
Acq: 08 Jan 2020 19:27

Tgt Ion: 146 Resp: 439
Ion Ratio Lower Upper
146 100
111 36.7 18.1 54.1
148 45.1 32.1 96.3





#96

1,2,3-Trichlorobenzene

Concen: Below Cal

RT: 14.02 min Scan# 2154

Delta R.T. 0.01 min

Lab File: VX014482.D

Acq: 08 Jan 2020 19:27

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:180 Resp: 193

Ion Ratio Lower Upper

180 100

182 175.6 47.9 143.6#

145 0.0 14.8 44.3#

