

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010820\
 Data File : VX014474.D
 Acq On : 08 Jan 2020 16:21
 Operator : JC/SP
 Sample : K6474-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 09 06:10:16 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

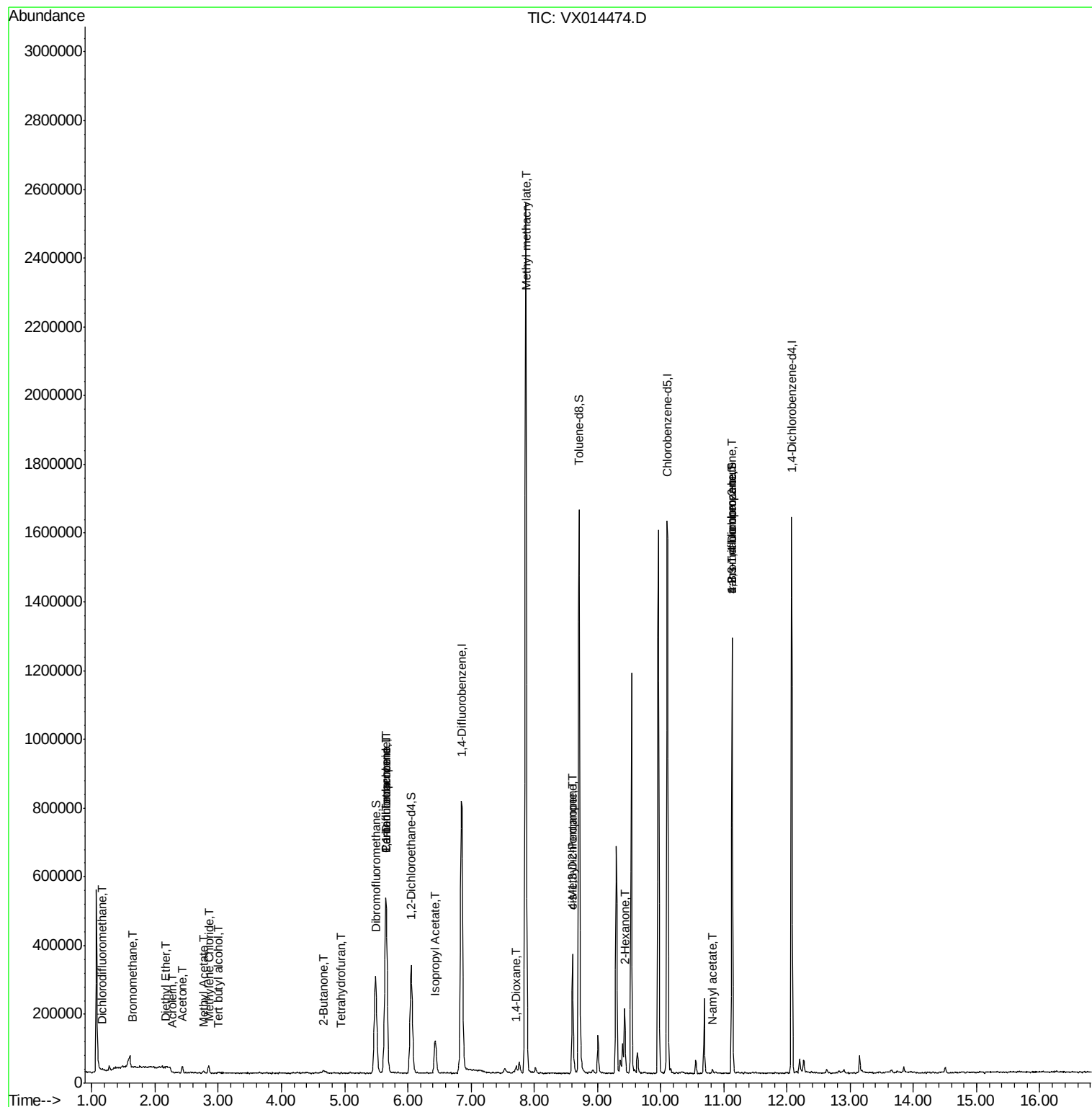
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	539598	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	816511	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	748563	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	345207	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	291708	48.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.86%	
35) Dibromofluoromethane	5.49	113	243276	49.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.44%	
50) Toluene-d8	8.71	98	979390	51.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.12%	
62) 4-Bromofluorobenzene	11.13	95	339465	48.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.42%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.17	85	196	0.282	ug/l #	42
5) Bromomethane	1.64	94	1254	0.247	ug/l	84
6) Chloroethane	1.73	64	339	Below Cal	#	43
8) Diethyl Ether	2.18	74	1444	0.364	ug/l	79
11) Tert butyl alcohol	3.01	59	2493	1.982	ug/l	96
13) Acrolein	2.28	56	284	0.282	ug/l #	15
16) Acetone	2.43	43	23372	3.620	ug/l	100
18) Methyl Acetate	2.76	43	5716	0.660	ug/l #	71
20) Methylene Chloride	2.85	84	10523	1.737	ug/l	90
25) 2-Butanone	4.67	43	5065	1.126	ug/l #	69
29) Tetrahydrofuran	4.95	42	787	0.296	ug/l	94
36) 1,1-Dichloropropene	5.65	75	35948	4.682	ug/l #	51
38) Carbon Tetrachloride	5.65	117	46890	6.636	ug/l #	18
43) Isopropyl Acetate	6.43	43	129132	9.584	ug/l	99
48) Methyl methacrylate	7.87	41	208549	32.318	ug/l #	43
49) 1,4-Dioxane	7.73	88	112	0.819	ug/l #	23
51) 4-Methyl-2-Pentanone	8.61	43	122195	14.883	ug/l #	50
54) cis-1,3-Dichloropropene	8.61	75	57832	6.232	ug/l #	58
59) 2-Hexanone	9.43	43	147946	22.774	ug/l #	23
74) N-amyl acetate	10.82	43	5932	0.555	ug/l #	48
76) 1,2,3-Trichloropropane	11.13	75	166018	23.244	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	166018	61.453	ug/l #	12
88) 1,4-Dichlorobenzene	12.09	146	1041	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	13.65	180	262	Below Cal	#	1
96) 1,2,3-Trichlorobenzene	14.03	180	448	Below Cal	#	73

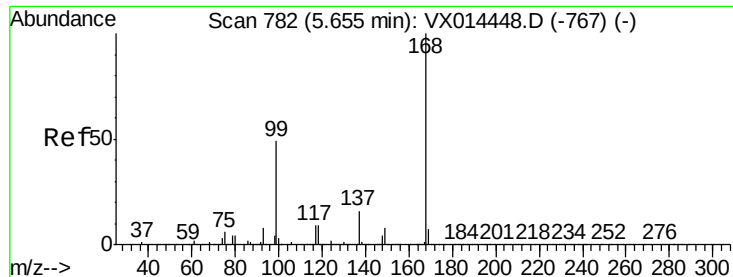
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jan 07 15:54:41 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX014474.D

Acq: 08 Jan 2020 16:21

Instrument :

MSVOA_X

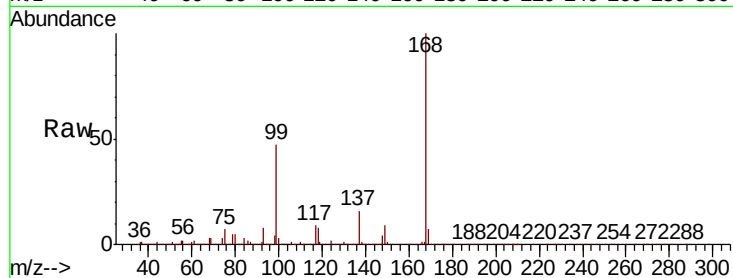
ClientSampleId :

Tot Ion:168 Resp: 539598

Ion Ratio Lower Upper

168 100

99 46.7 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

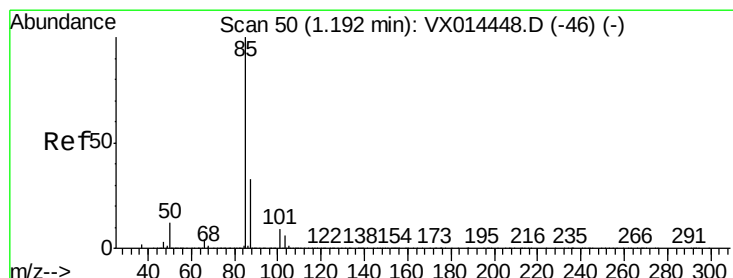
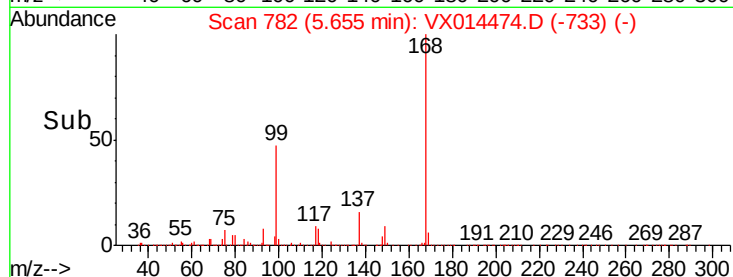
100000

50000

0

5.50 5.60 5.70 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: 0.282 ug/l

RT: 1.17 min Scan# 46

Delta R.T. -0.02 min

Lab File: VX014474.D

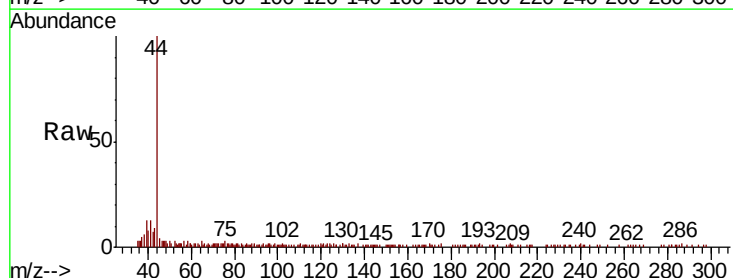
Acq: 08 Jan 2020 16:21

Tgt Ion: 85 Resp: 196

Ion Ratio Lower Upper

85 100

87 0.0 16.5 49.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.17

300

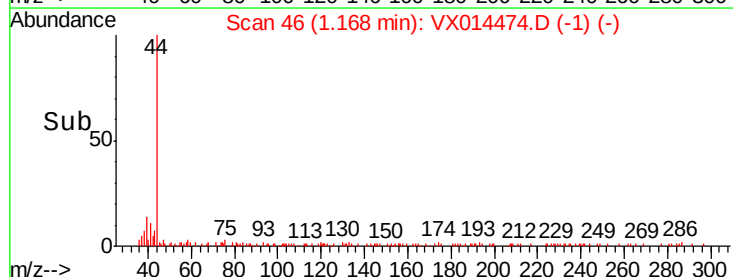
200

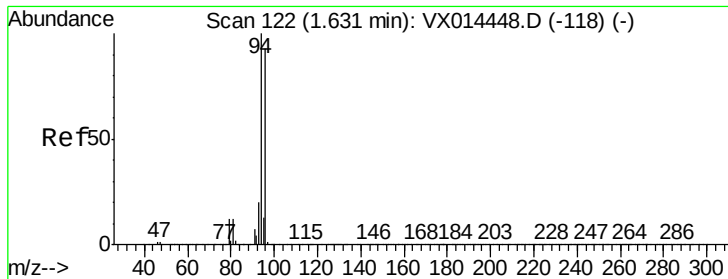
100

0

1.14 1.16 1.18

Time-->





#5

Bromomethane

Concen: 0.247 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014474.D

Acq: 08 Jan 2020 16:21

Instrument :

MSVOA_X

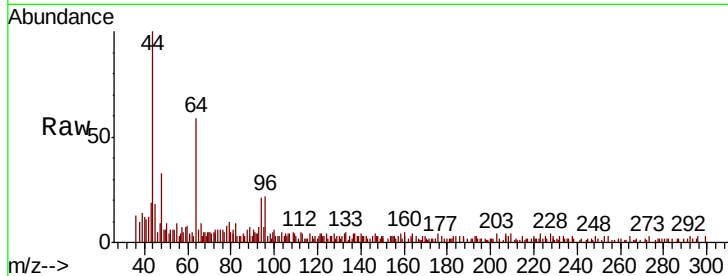
ClientSampled :

Tot Ion: 94 Resp: 1254

Ion Ratio Lower Upper

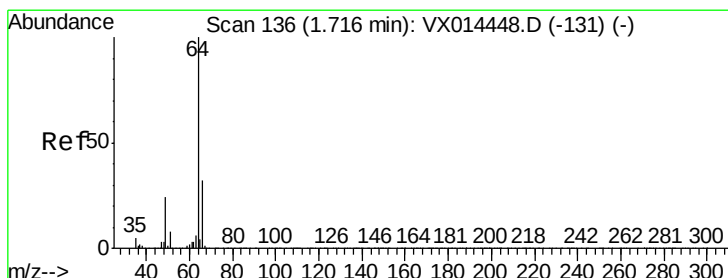
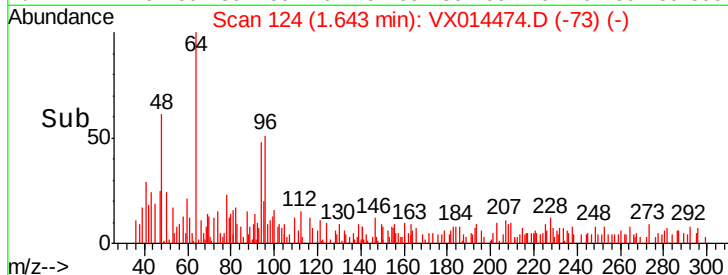
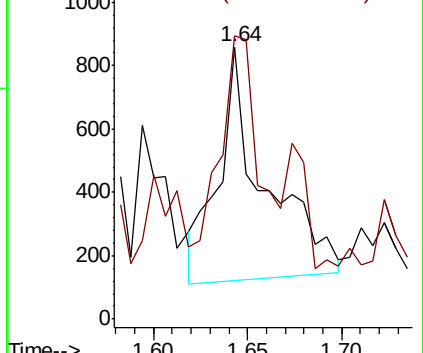
94 100

96 108.2 74.2 111.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 138

Delta R.T. 0.01 min

Lab File: VX014474.D

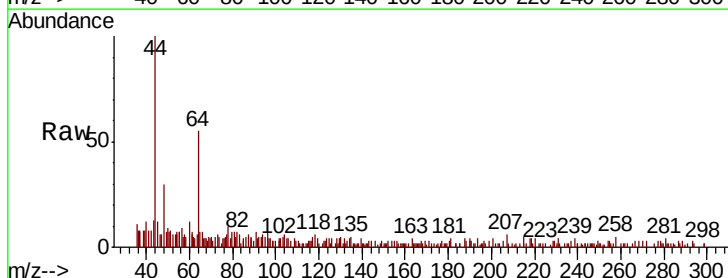
Acq: 08 Jan 2020 16:21

Tgt Ion: 64 Resp: 339

Ion Ratio Lower Upper

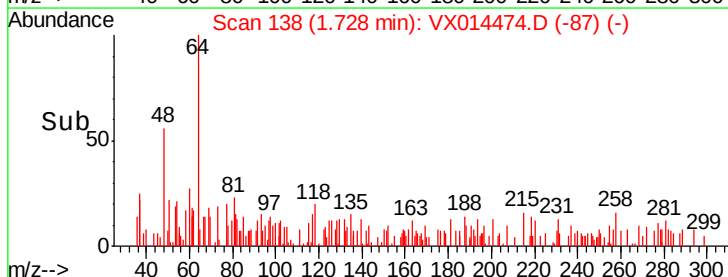
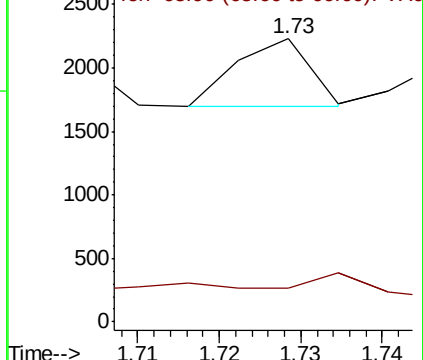
64 100

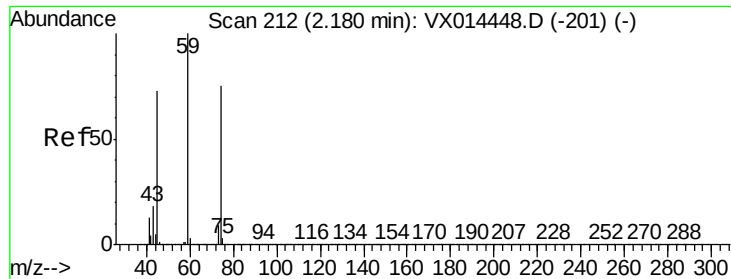
66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#8

Diethyl Ether

Concen: 0.364 ug/l

RT: 2.18 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX014474.D

Acq: 08 Jan 2020 16:21

Instrument :

MSVOA_X

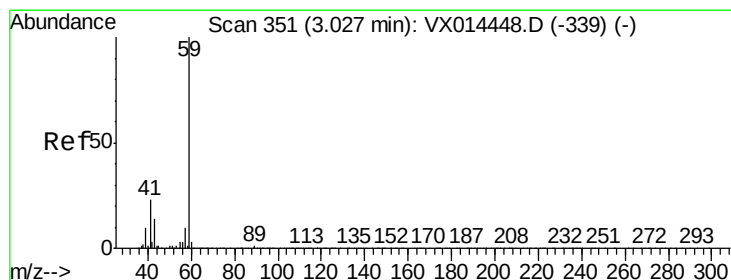
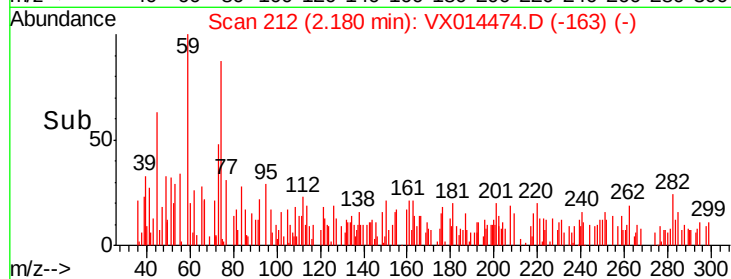
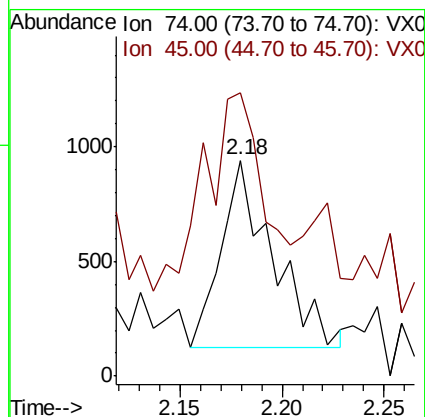
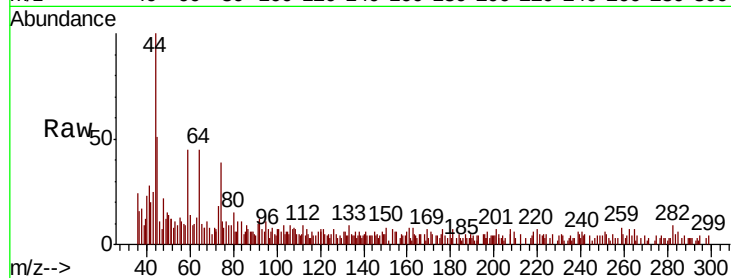
ClientSampled :

Tot Ion: 74 Resp: 1444

Ion Ratio Lower Upper

74 100

45 118.2 48.7 146.1



#11

Tert butyl alcohol

Concen: 1.982 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.02 min

Lab File: VX014474.D

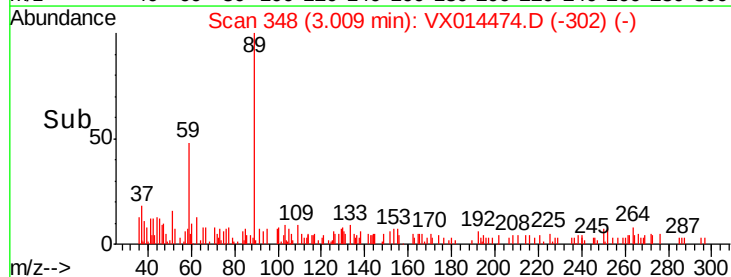
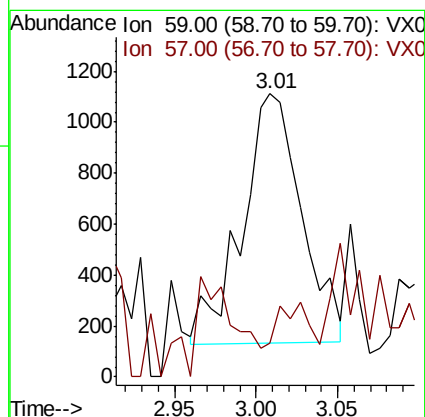
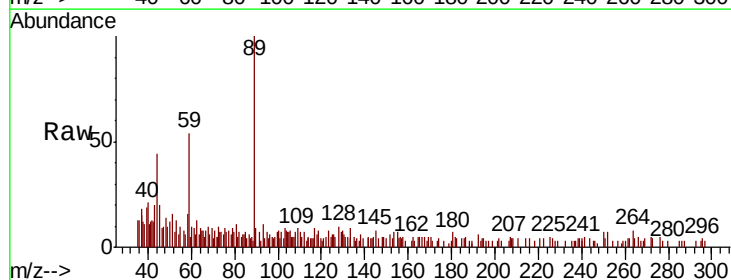
Acq: 08 Jan 2020 16:21

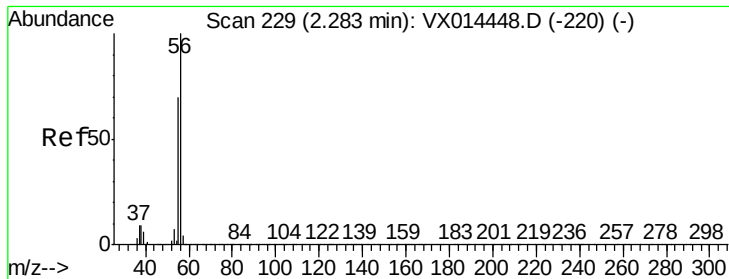
Tgt Ion: 59 Resp: 2493

Ion Ratio Lower Upper

59 100

57 12.1 8.5 12.7

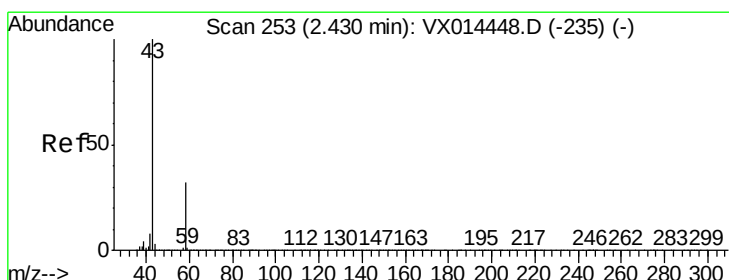
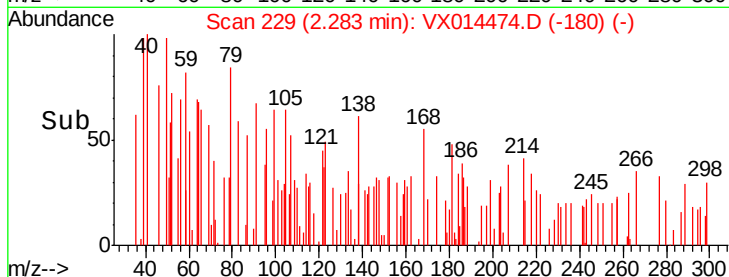
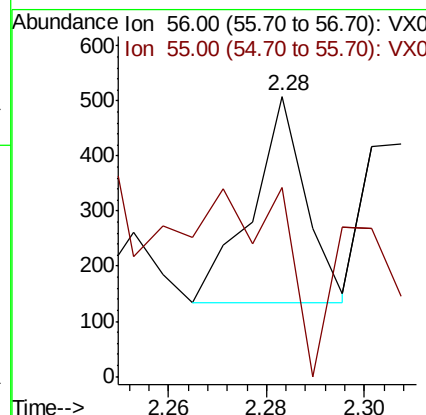
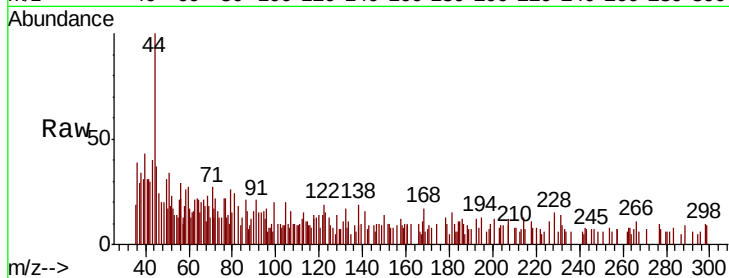




#13
Acrolein
Concen: 0.282 ug/l
RT: 2.28 min Scan# 229
Delta R.T. -0.00 min
Lab File: VX014474.D
Acq: 08 Jan 2020 16:21

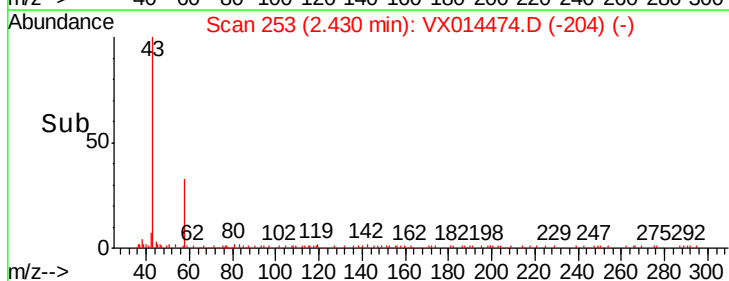
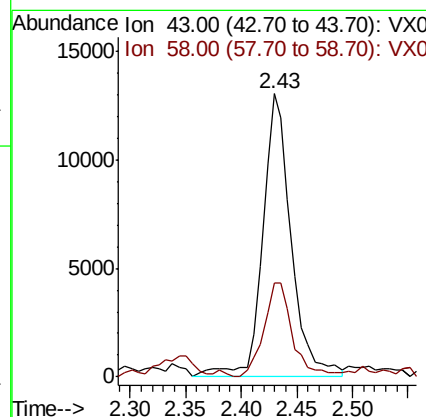
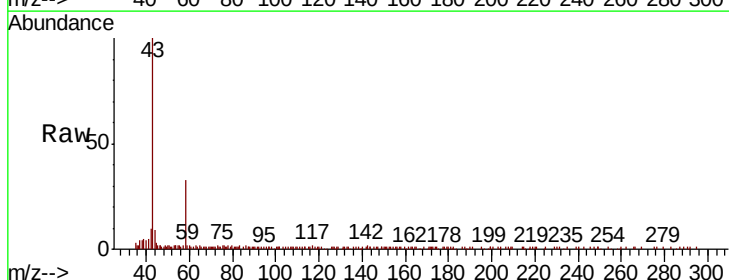
Instrument :
MSVOA_X
ClientSampled :

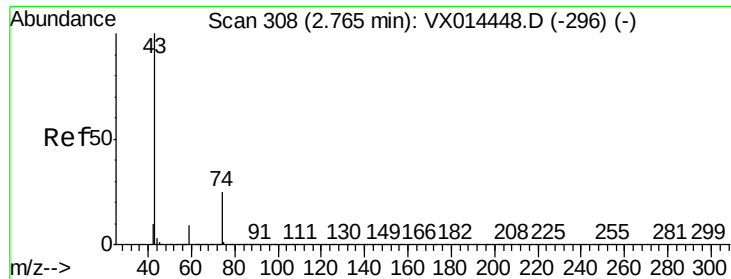
Tot Ion: 56 Resp: 284
Ion Ratio Lower Upper
56 100
55 0.0 55.0 82.6#



#16
Acetone
Concen: 3.620 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX014474.D
Acq: 08 Jan 2020 16:21

Tgt Ion: 43 Resp: 23372
Ion Ratio Lower Upper
43 100
58 31.5 25.4 38.0

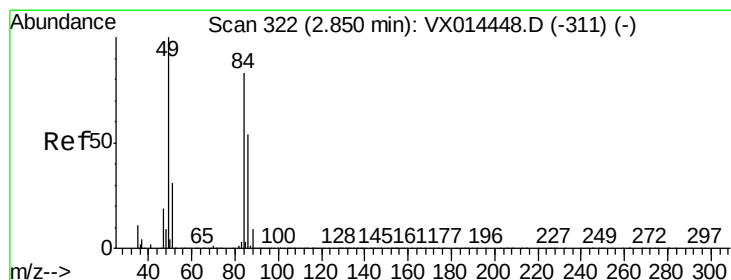
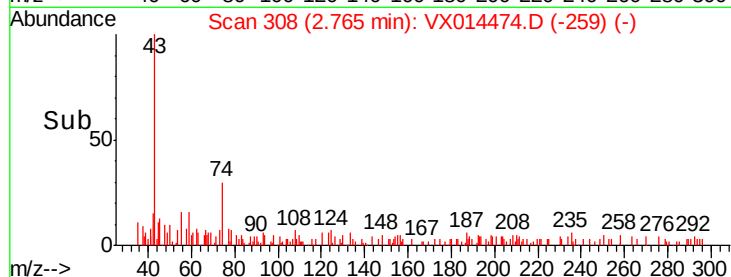
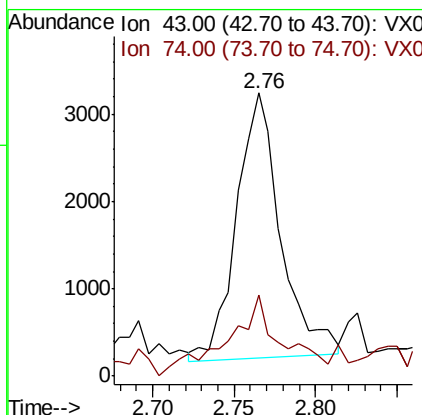
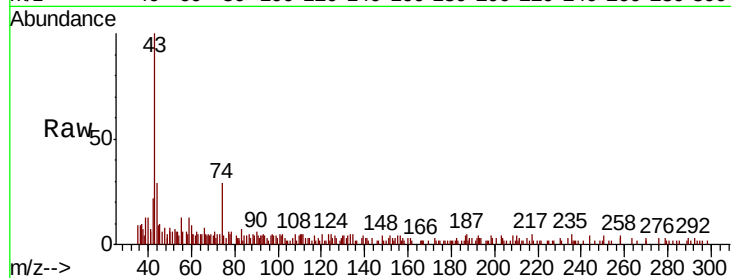




#18
Methyl Acetate
Concen: 0.660 ug/l
RT: 2.76 min Scan# 308
Delta R.T. -0.00 min
Lab File: VX014474.D
Acq: 08 Jan 2020 16:21

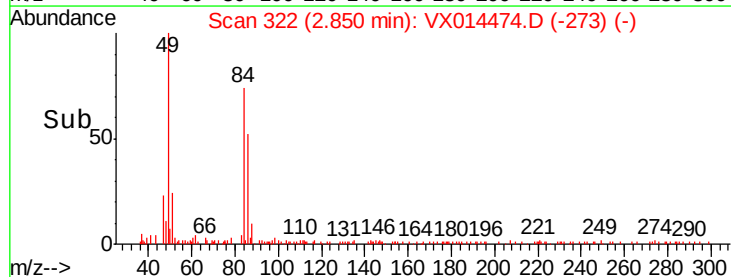
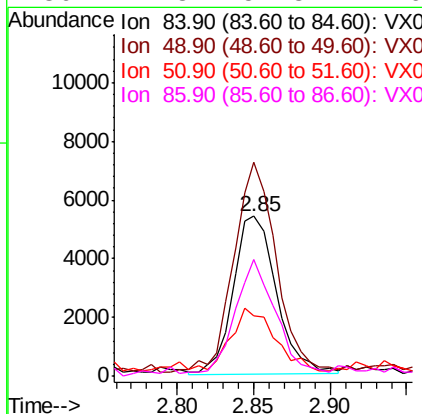
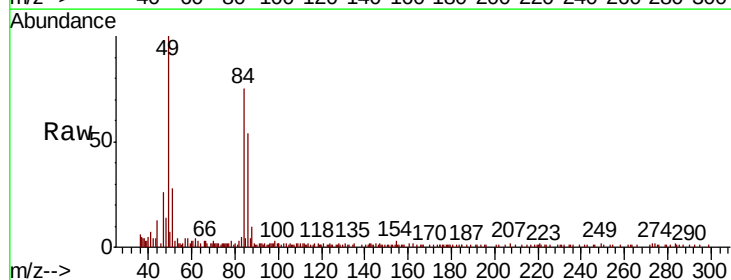
Instrument :
MSVOA_X
ClientSampleId :

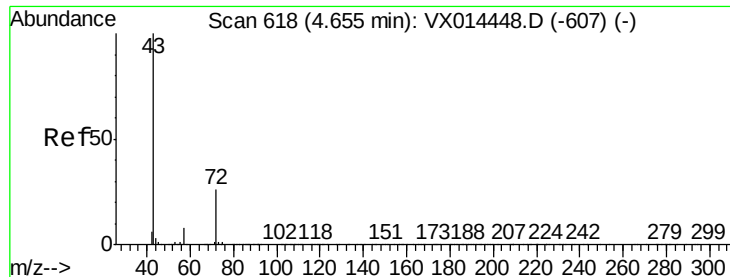
Tot Ion: 43 Resp: 5716
Ion Ratio Lower Upper
43 100
74 38.6 19.4 29.2#



#20
Methylene Chloride
Concen: 1.737 ug/l
RT: 2.85 min Scan# 322
Delta R.T. -0.00 min
Lab File: VX014474.D
Acq: 08 Jan 2020 16:21

Tgt Ion: 84 Resp: 10523
Ion Ratio Lower Upper
84 100
49 133.0 95.8 143.8
51 34.7 30.2 45.4
86 71.8 51.8 77.6





#25

2-Butanone

Concen: 1.126 ug/l

RT: 4.67 min Scan# 620

Delta R.T. 0.01 min

Lab File: VX014474.D

Acq: 08 Jan 2020 16:21

Instrument :

MSVOA_X

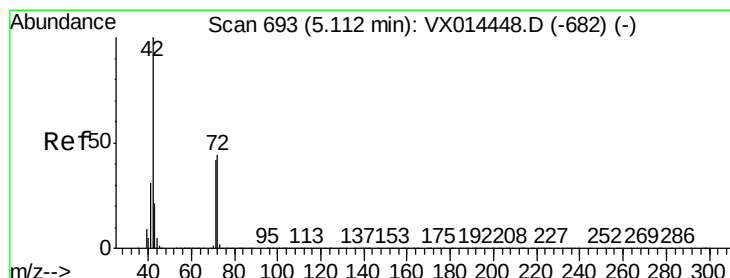
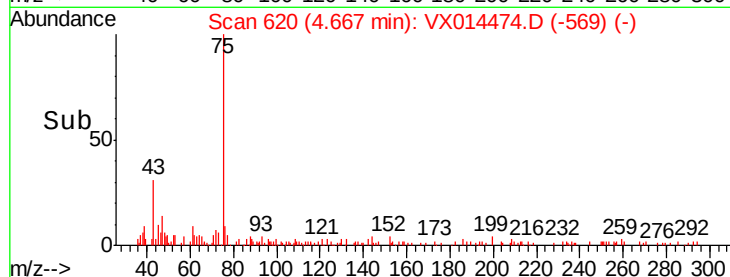
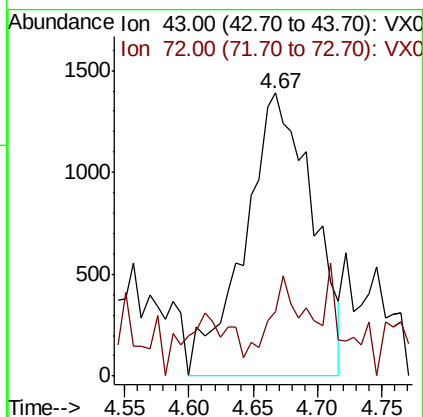
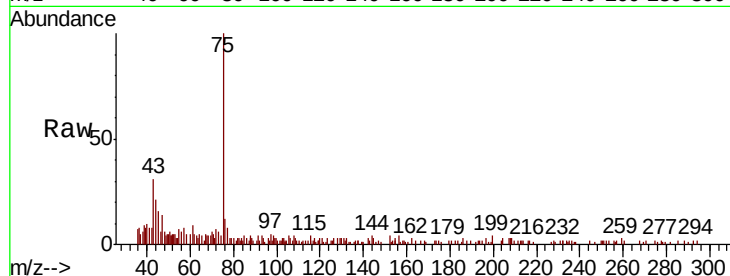
ClientSampled :

Tot Ion: 43 Resp: 5065

Ion Ratio Lower Upper

43 100

72 10.2 20.6 31.0#



#29

Tetrahydrofuran

Concen: 0.296 ug/l

RT: 4.95 min Scan# 666

Delta R.T. -0.16 min

Lab File: VX014474.D

Acq: 08 Jan 2020 16:21

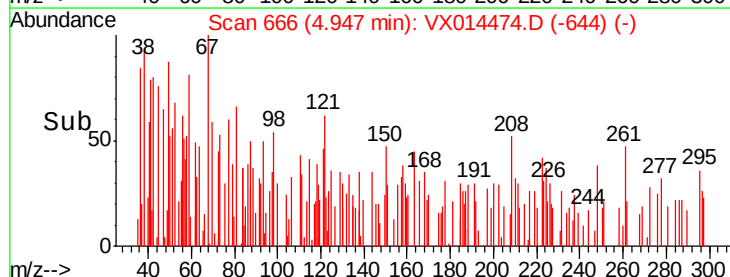
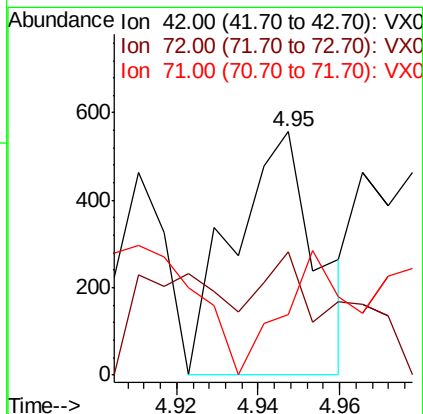
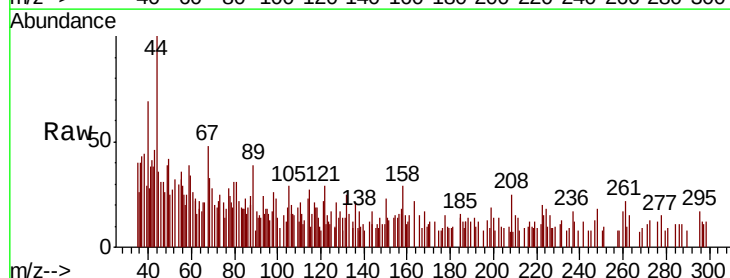
Tgt Ion: 42 Resp: 787

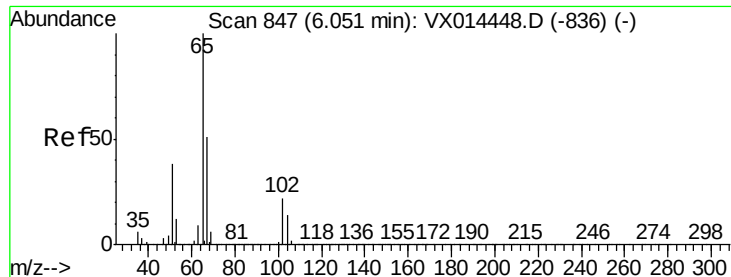
Ion Ratio Lower Upper

42 100

72 50.2 36.2 54.4

71 40.0 34.1 51.1





#33

1,2-Dichloroethane-d4

Concen: 48.426 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX014474.D

Acq: 08 Jan 2020 16:21

Instrument :

MSVOA_X

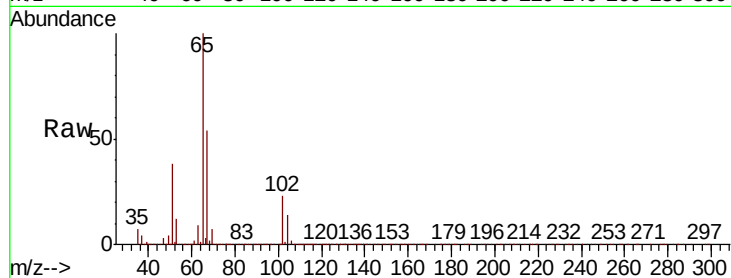
ClientSampleId :

Tot Ion: 65 Resp: 291708

Ion Ratio Lower Upper

65 100

67 53.7 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

120000

100000

80000

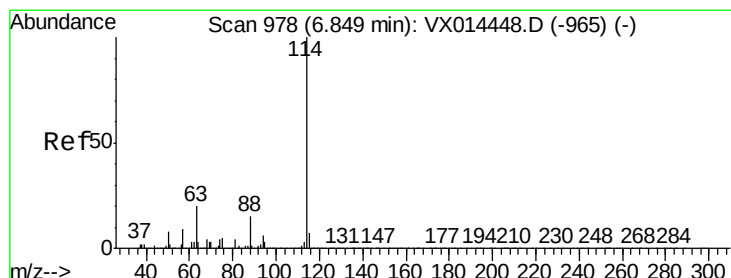
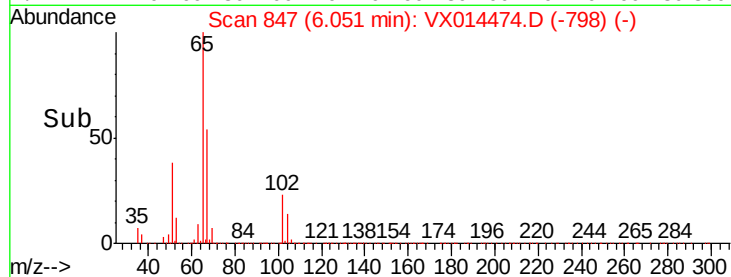
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX014474.D

Acq: 08 Jan 2020 16:21

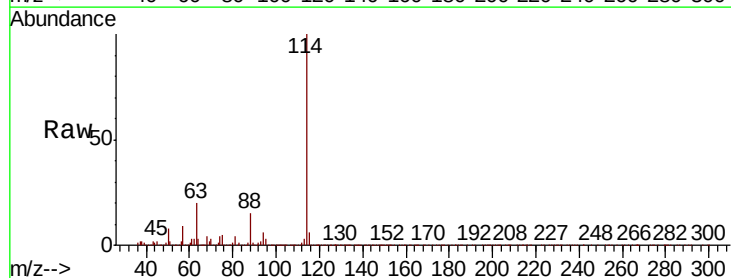
Tgt Ion: 114 Resp: 816511

Ion Ratio Lower Upper

114 100

63 20.4 0.0 39.6

88 15.2 0.0 30.8



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

6.85

400000

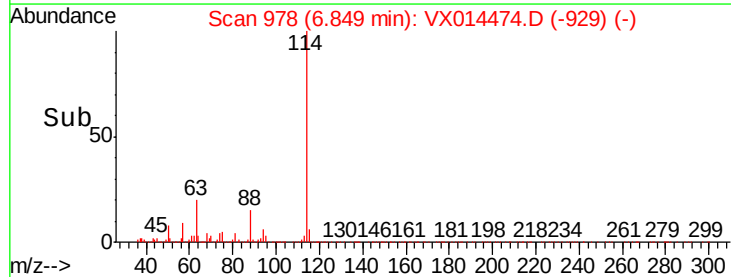
300000

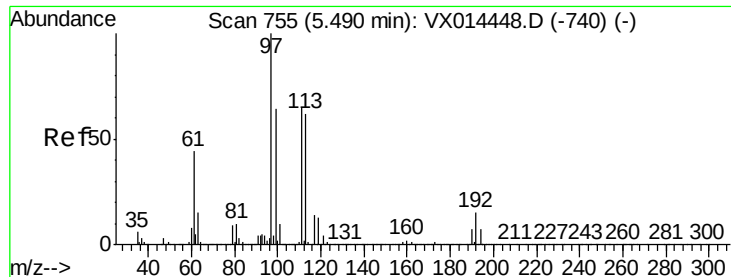
200000

100000

0

Time-->

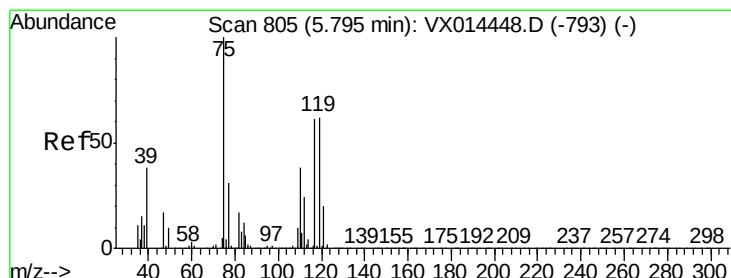
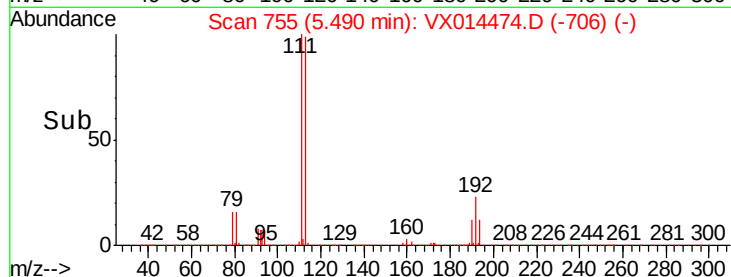
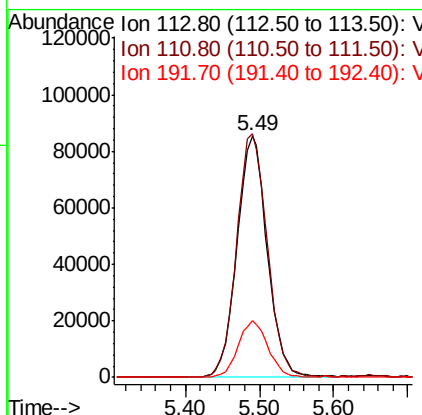
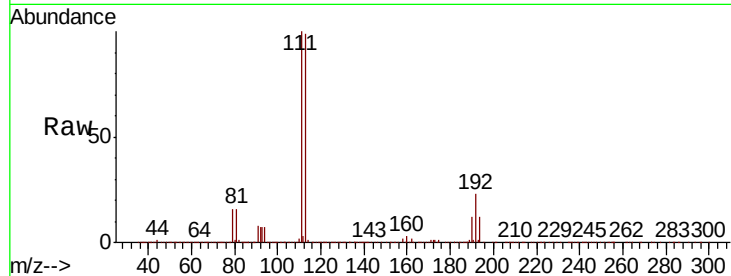




#35
 Dibromofluoromethane
 Concen: 49.219 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. -0.00 min
 Lab File: VX014474.D
 Acq: 08 Jan 2020 16:21

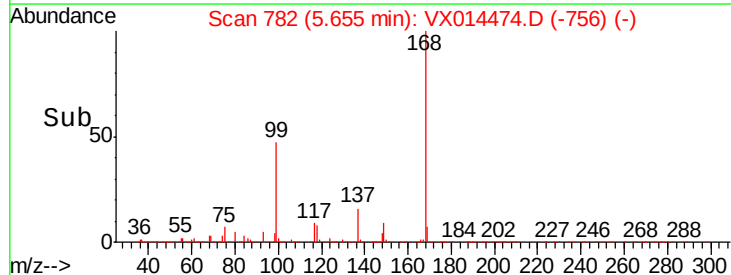
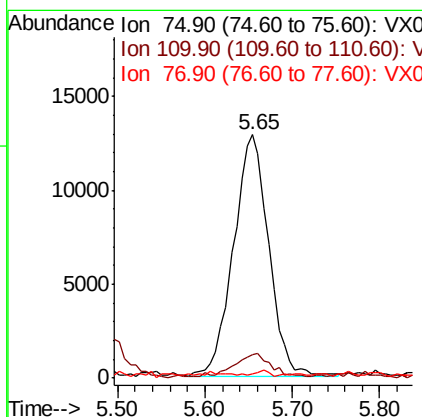
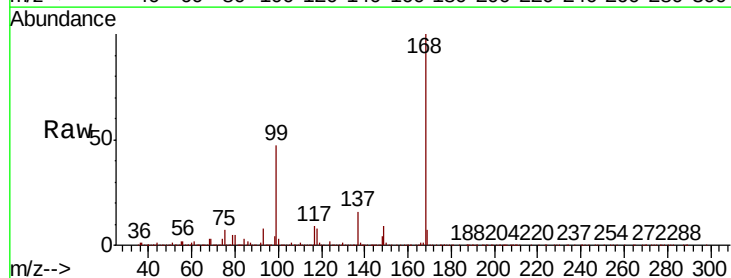
Instrument :
 MSVOA_X
 ClientSampled :

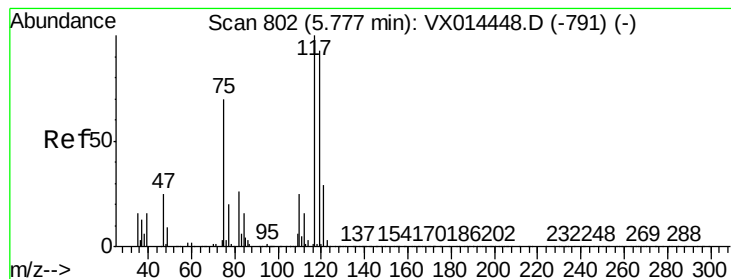
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.5	122.3
192	23.1	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 4.682 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.14 min
 Lab File: VX014474.D
 Acq: 08 Jan 2020 16:21

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.6	18.6	55.8#
77	0.7	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 6.636 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014474.D

Acq: 08 Jan 2020 16:21

Instrument :

MSVOA_X

ClientSampleId :

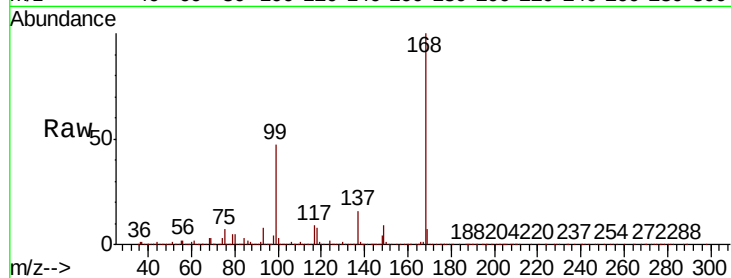
Tot Ion:117 Resp: 46890

Ion Ratio Lower Upper

117 100

119 5.8 73.8 110.8#

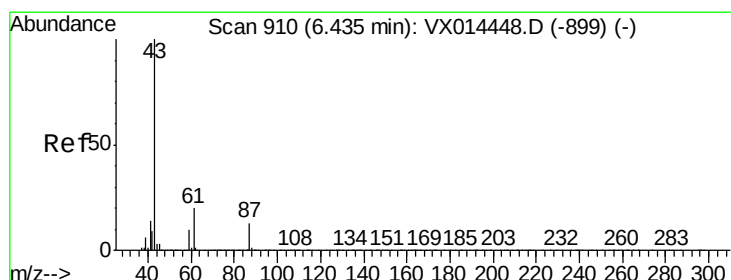
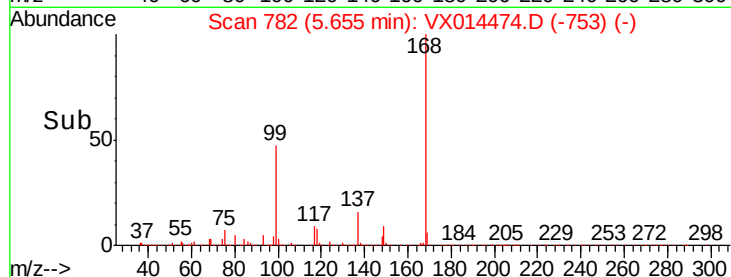
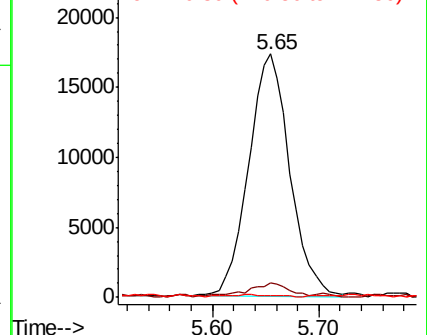
121 0.2 23.4 35.0#



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



#43

Isopropyl Acetate

Concen: 9.584 ug/l

RT: 6.43 min Scan# 910

Delta R.T. -0.00 min

Lab File: VX014474.D

Acq: 08 Jan 2020 16:21

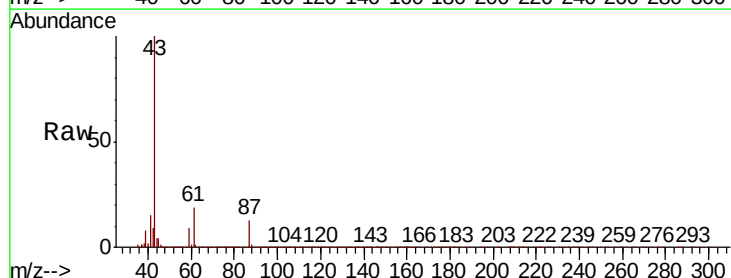
Tgt Ion: 43 Resp: 129132

Ion Ratio Lower Upper

43 100

61 19.9 16.6 24.8

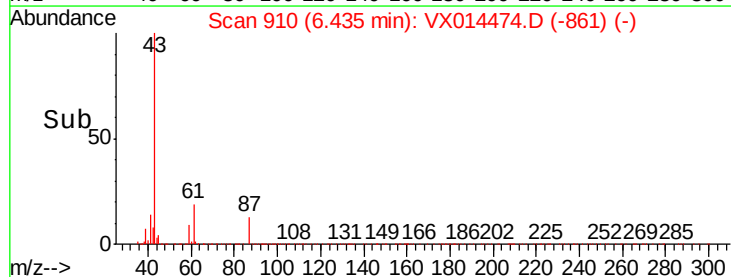
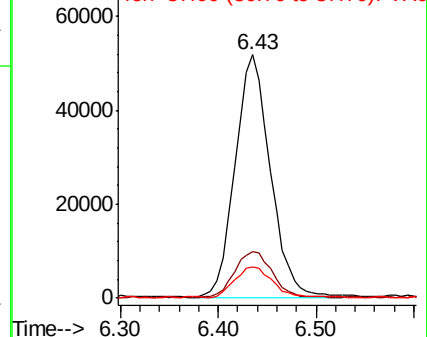
87 13.3 10.8 16.2

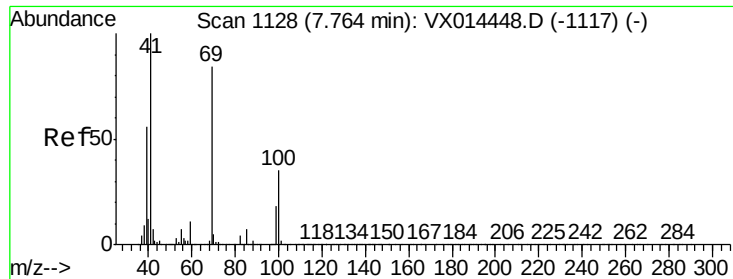


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

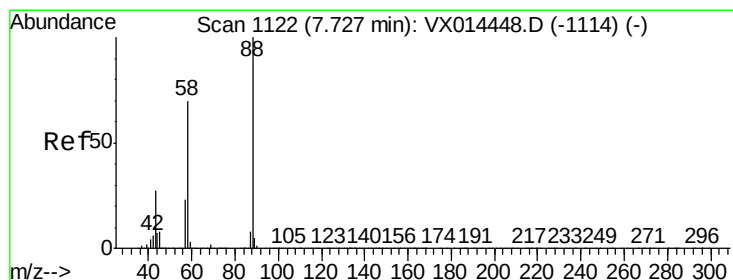
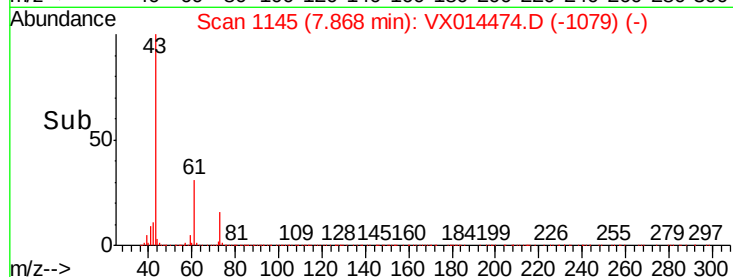
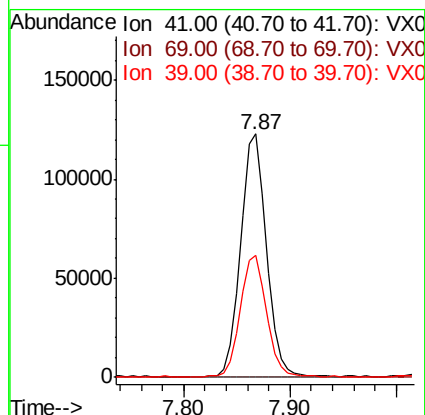
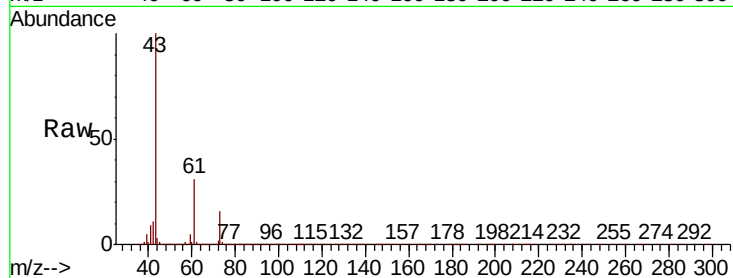




#48
Methvl methacrylate
Concen: 32.318 ug/l
RT: 7.87 min Scan# 1145
Delta R.T. 0.10 min
Lab File: VX014474.D
Acq: 08 Jan 2020 16:21

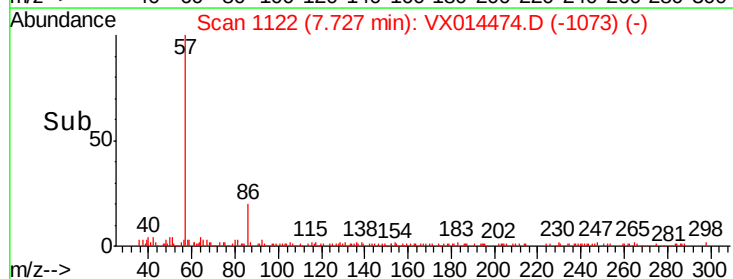
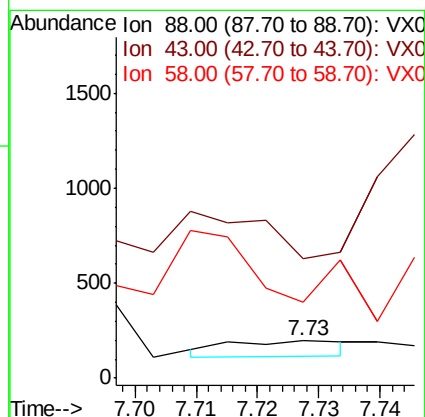
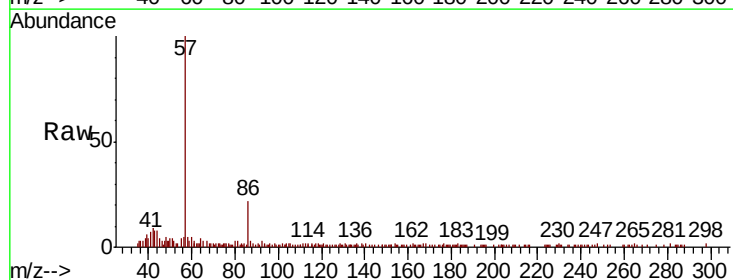
Instrument :
MSVOA_X
ClientSampleId :

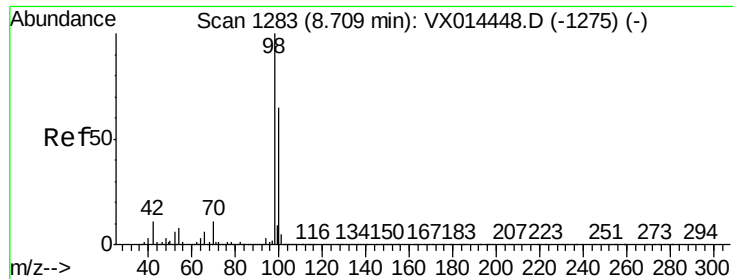
Tot Ion: 41 Resp: 208549
Ion Ratio Lower Upper
41 100
69 0.2 65.5 98.3#
39 50.3 43.9 65.9



#49
1,4-Dioxane
Concen: 0.819 ug/l
RT: 7.73 min Scan# 1122
Delta R.T. -0.00 min
Lab File: VX014474.D
Acq: 08 Jan 2020 16:21

Tgt Ion: 88 Resp: 112
Ion Ratio Lower Upper
88 100
43 0.0 27.4 41.0#
58 0.0 57.1 85.7#

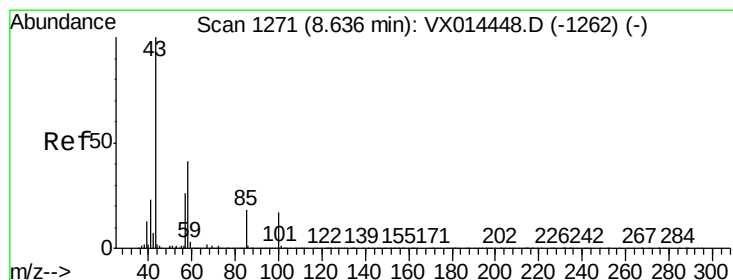
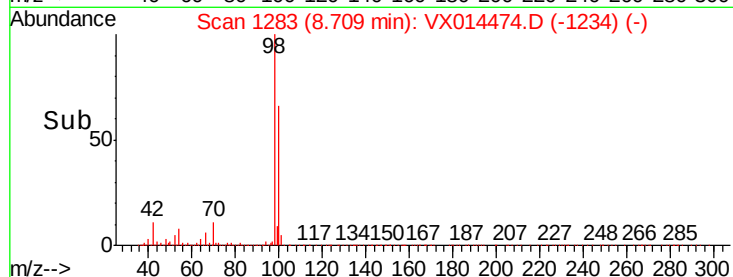
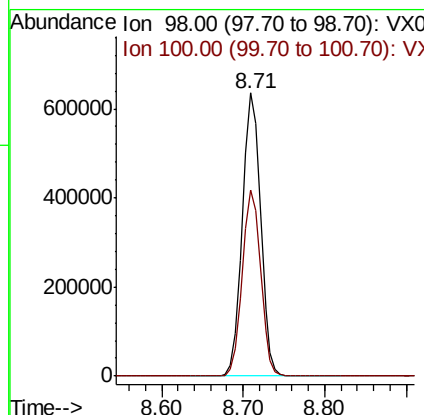
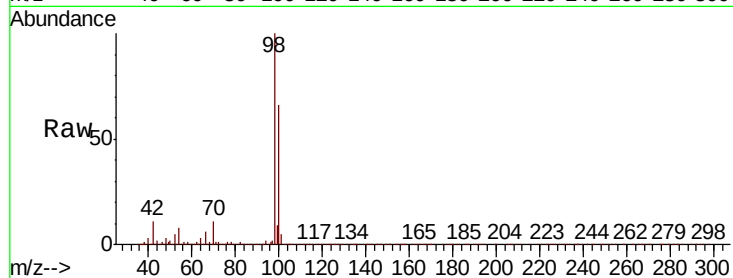




#50
Toluene-d8
Concen: 51.061 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX014474.D
Acq: 08 Jan 2020 16:21

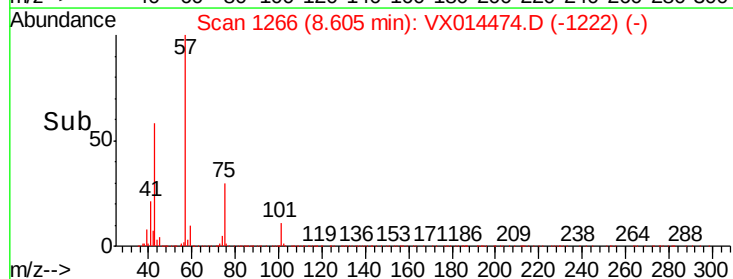
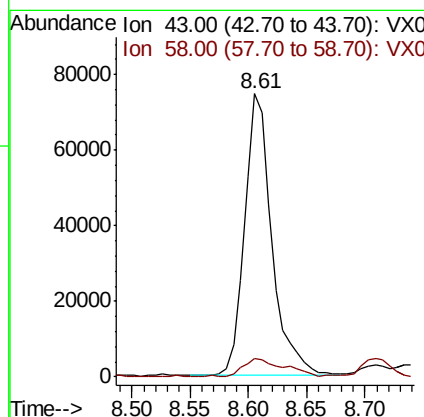
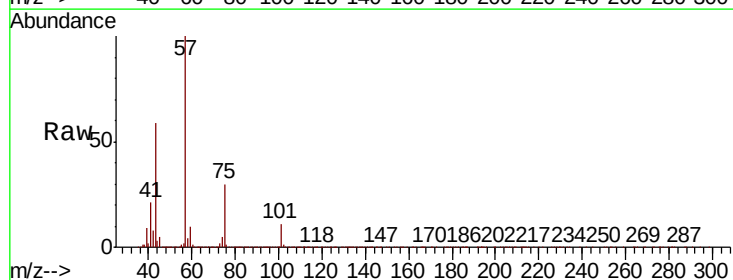
Instrument :
MSVOA_X
ClientSampleId :

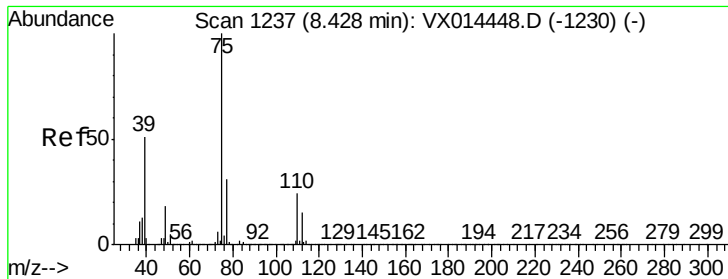
Tot Ion: 98 Resp: 979390
Ion Ratio Lower Upper
98 100
100 65.8 53.2 79.8



#51
4-Methyl-2-Pentanone
Concen: 14.883 ug/l
RT: 8.61 min Scan# 1266
Delta R.T. -0.03 min
Lab File: VX014474.D
Acq: 08 Jan 2020 16:21

Tgt Ion: 43 Resp: 122195
Ion Ratio Lower Upper
43 100
58 9.5 32.4 48.6#



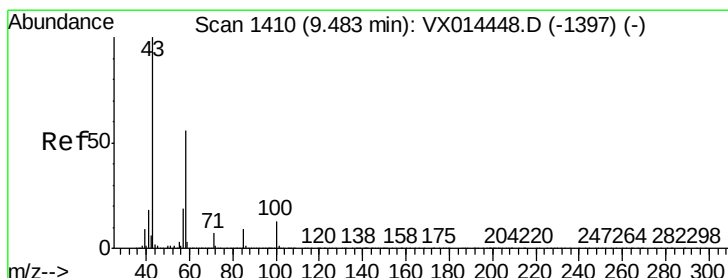
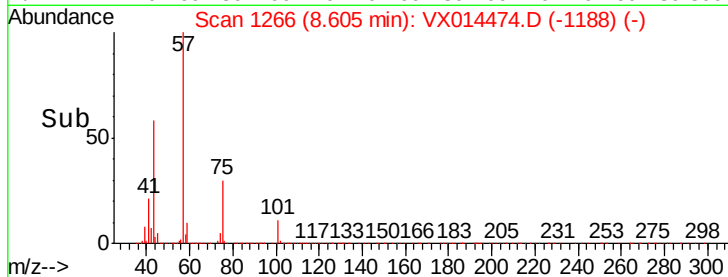
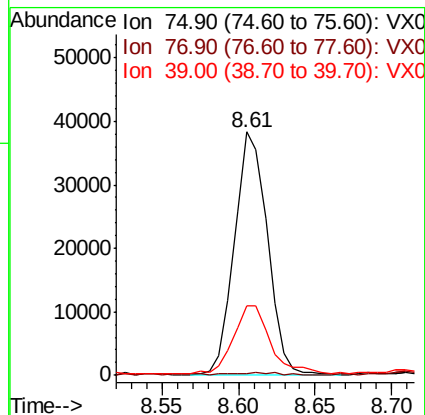
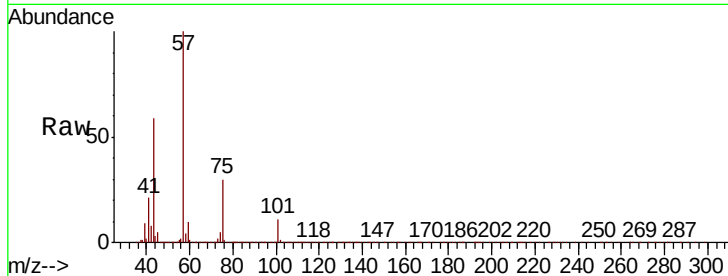


#54

cis-1,3-Dichloropropene
Concen: 6.232 ug/l
RT: 8.61 min Scan# 1266
Delta R.T. 0.18 min
Lab File: VX014474.D
Acq: 08 Jan 2020 16:21

Instrument :
MSVOA_X
ClientSampleId :

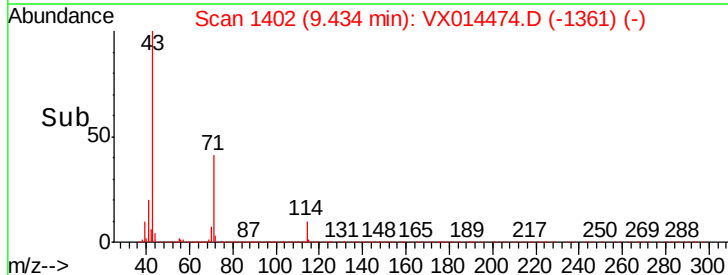
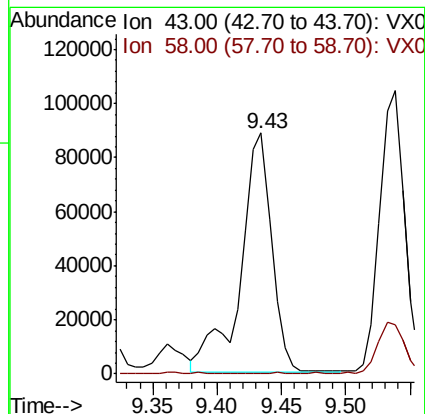
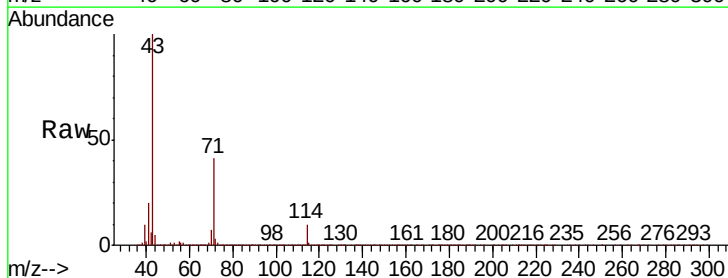
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.3	25.0	37.4#
39	27.9	40.7	61.1#

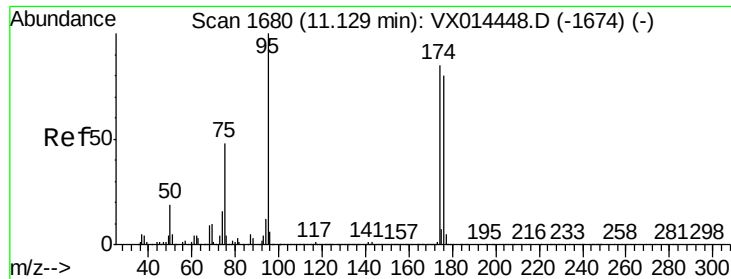


#59

2-Hexanone
Concen: 22.774 ug/l
RT: 9.43 min Scan# 1402
Delta R.T. -0.05 min
Lab File: VX014474.D
Acq: 08 Jan 2020 16:21

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	27.9	83.7#

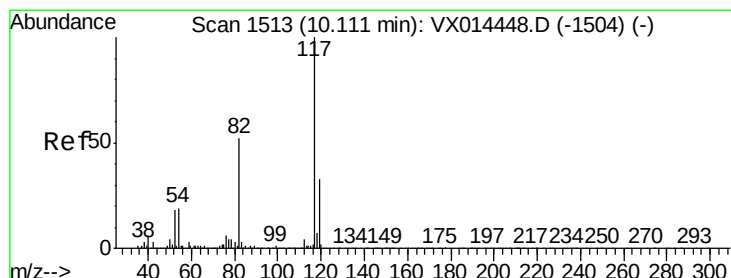
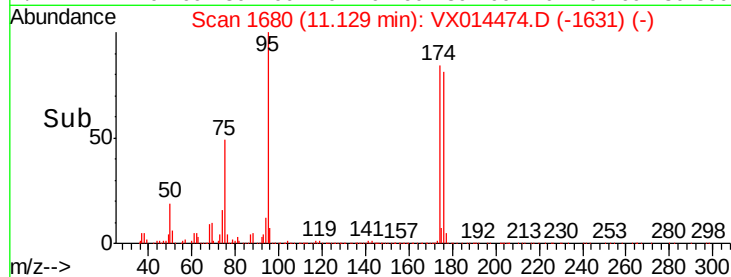
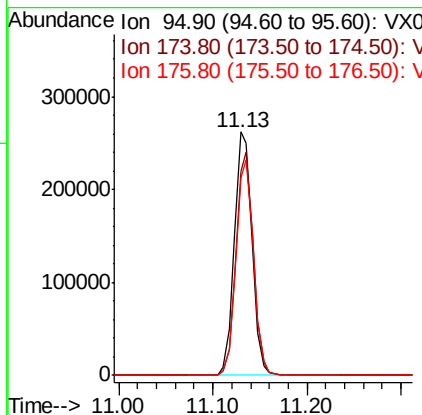
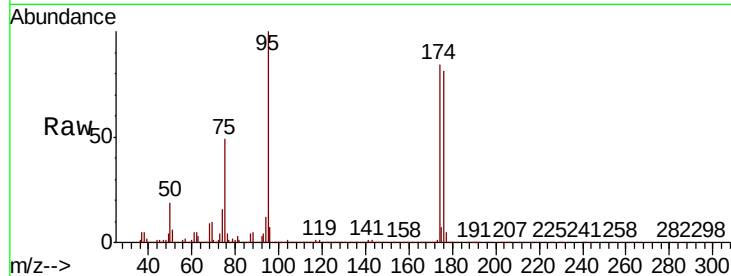




#62
4-Bromofluorobenzene
Concen: 48.209 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VX014474.D
Acq: 08 Jan 2020 16:21

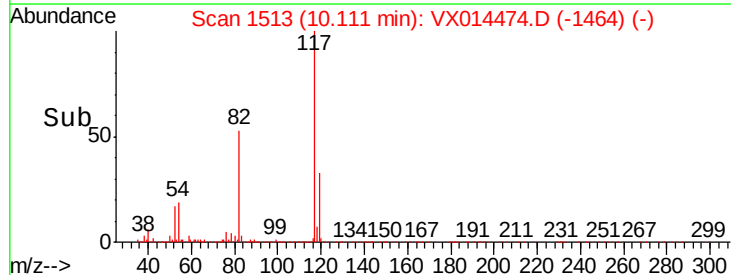
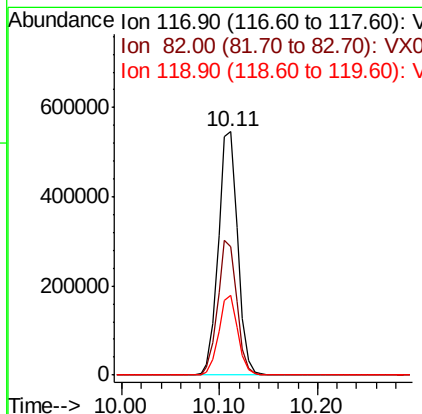
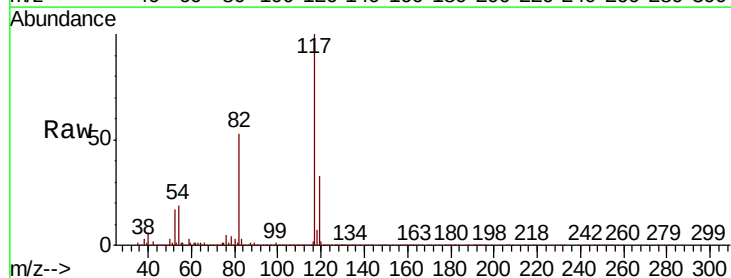
Instrument :
MSVOA_X
ClientSampleId :

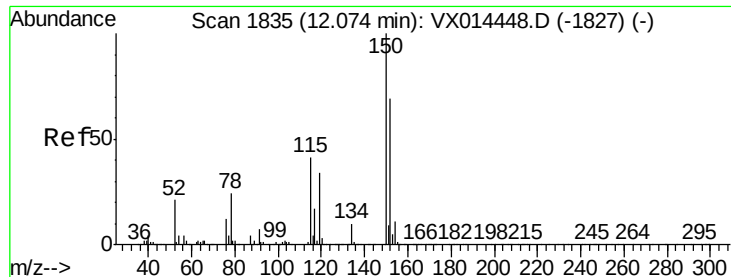
Tot Ion	Ratio	Lower	Upper
95	100		
174	89.8	0.0	180.8
176	87.5	0.0	172.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX014474.D
Acq: 08 Jan 2020 16:21

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.9	41.8	62.6
119	32.5	26.2	39.4



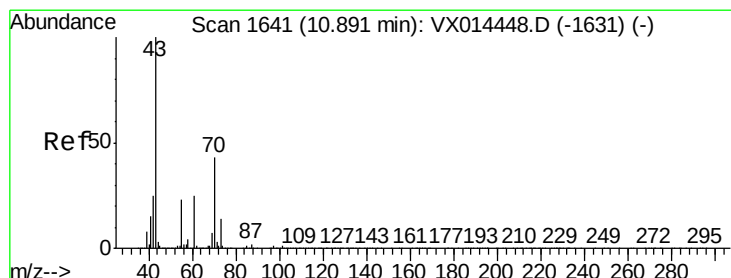
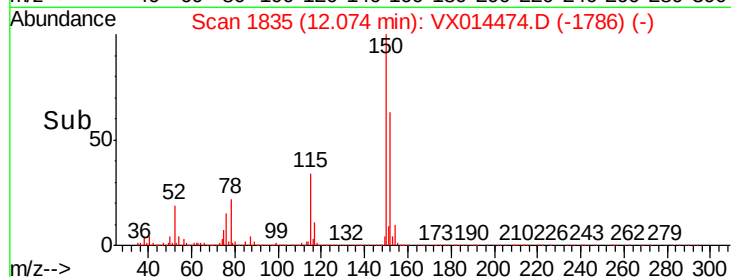
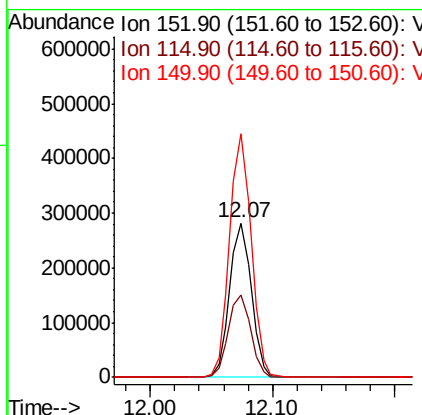
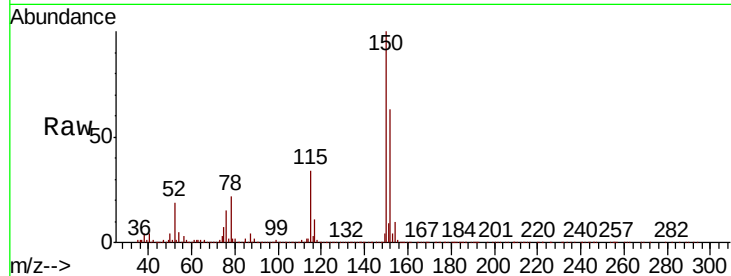


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX014474.D
Acq: 08 Jan 2020 16:21

Instrument :
MSVOA_X
ClientSampleId :

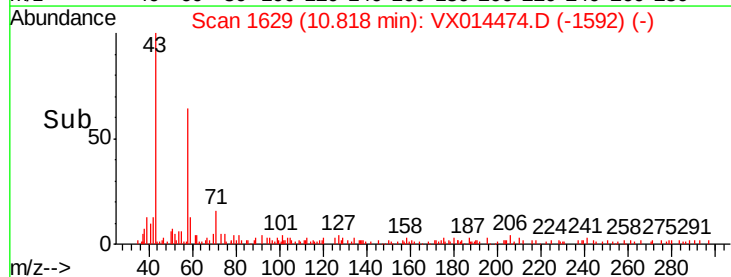
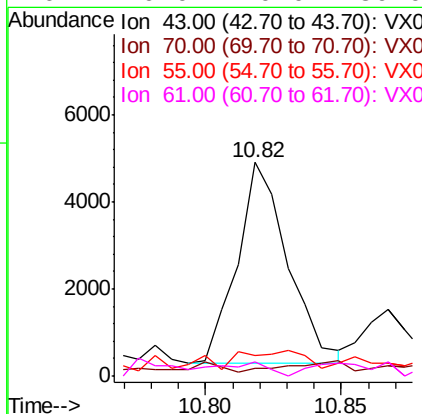
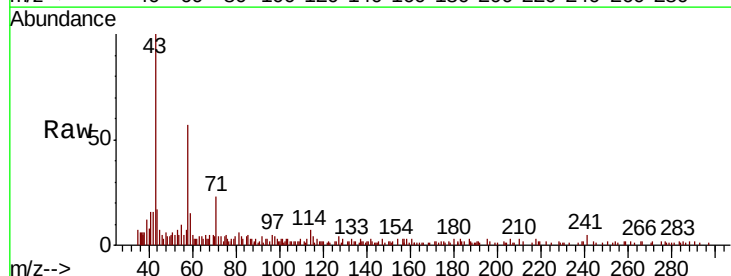
Tot Ion	Ratio	Lower	Upper
152	100		
115	54.9	39.5	118.3
150	157.8	0.0	350.2

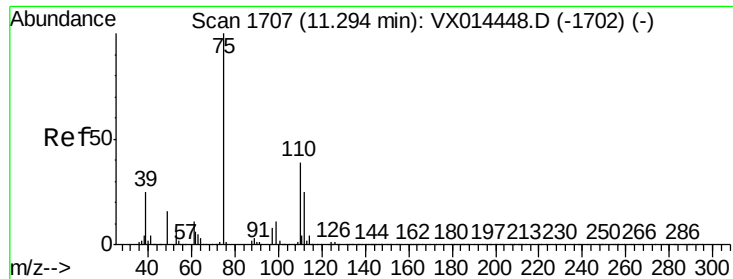


#74

N-ethyl acetate
Concen: 0.555 ug/l
RT: 10.82 min Scan# 1629
Delta R.T. -0.07 min
Lab File: VX014474.D
Acq: 08 Jan 2020 16:21

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	35.1	52.7#
55	12.0	19.3	28.9#
61	0.0	20.0	30.0#





#76

1,2,3-Trichloropropane

Concen: 23.244 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014474.D

Acq: 08 Jan 2020 16:21

Instrument :

MSVOA_X

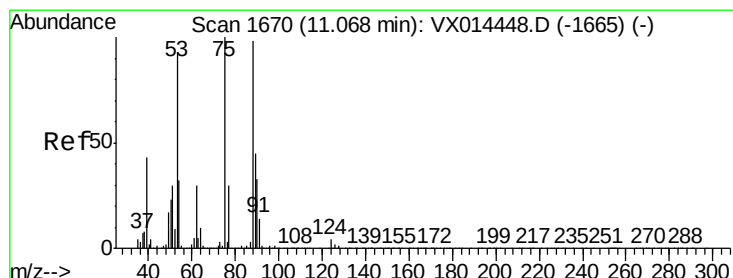
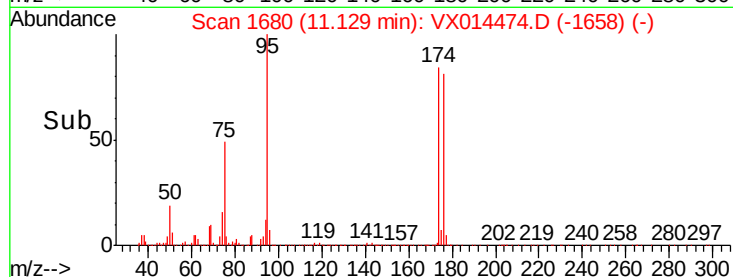
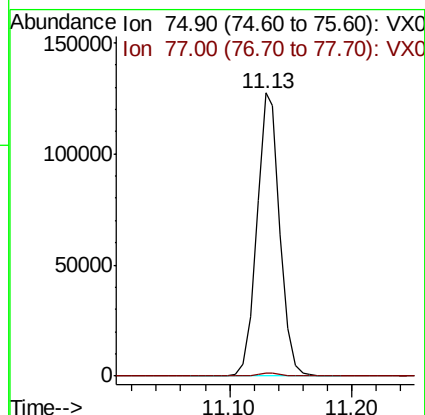
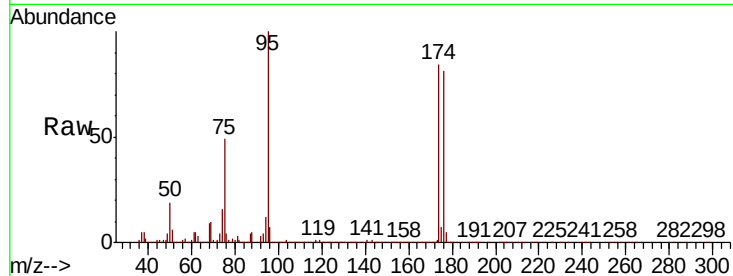
ClientSampleId :

Tot Ion: 75 Resp: 166018

Ion Ratio Lower Upper

75 100

77 1.5 21.9 65.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.453 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014474.D

Acq: 08 Jan 2020 16:21

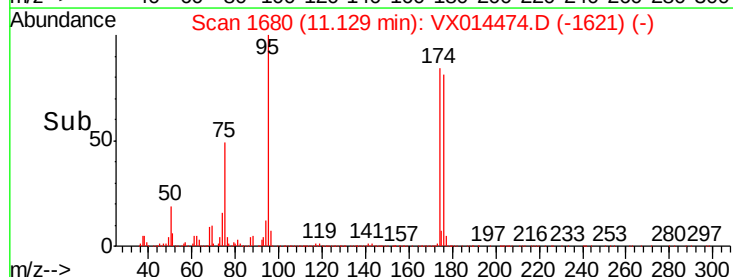
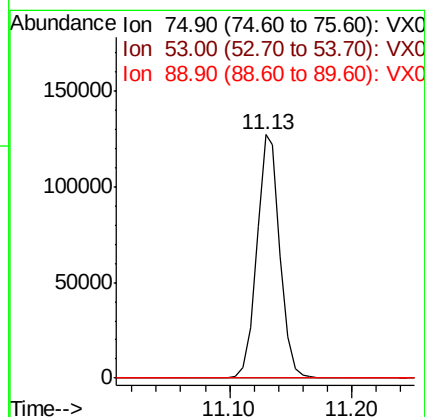
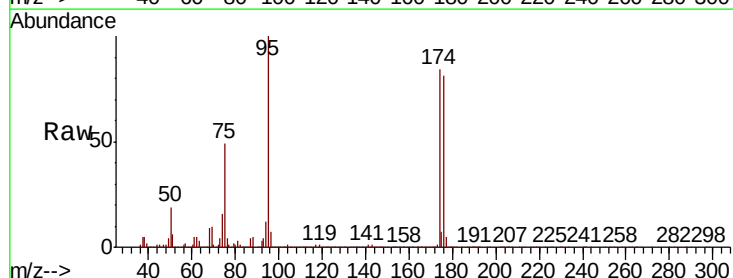
Tgt Ion: 75 Resp: 166018

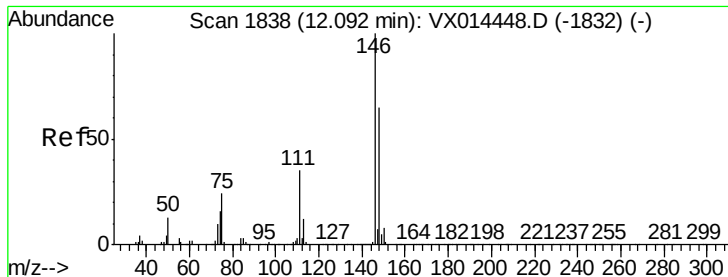
Ion Ratio Lower Upper

75 100

53 0.4 74.8 112.2#

89 0.2 36.3 54.5#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.09 min Scan# 1838

Delta R.T. 0.00 min

Lab File: VX014474.D

Acq: 08 Jan 2020 16:21

Instrument :

MSVOA_X

ClientSampleId :

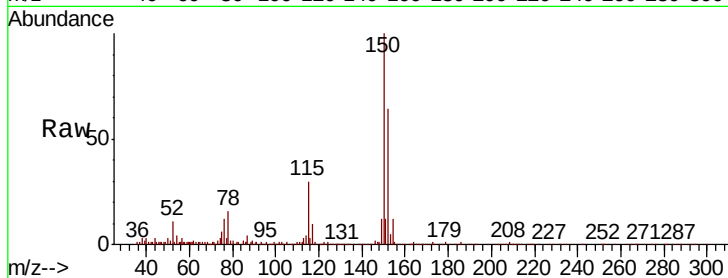
Tot Ion:146 Resp: 1041

Ion Ratio Lower Upper

146 100

111 461.1 18.1 54.1#

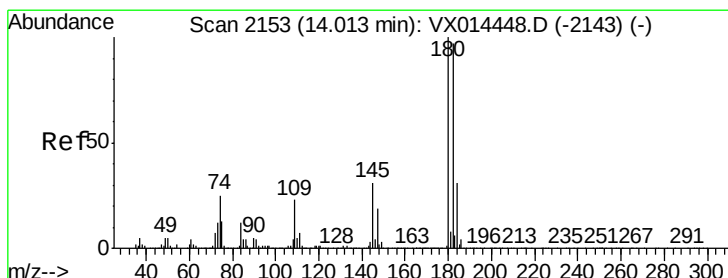
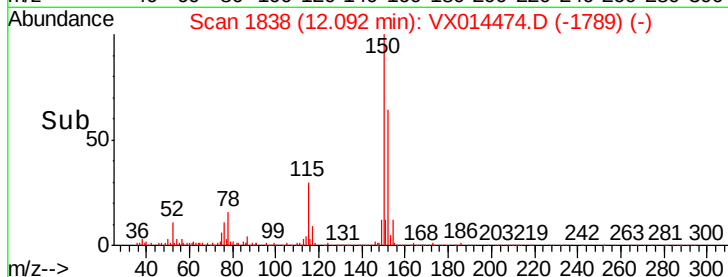
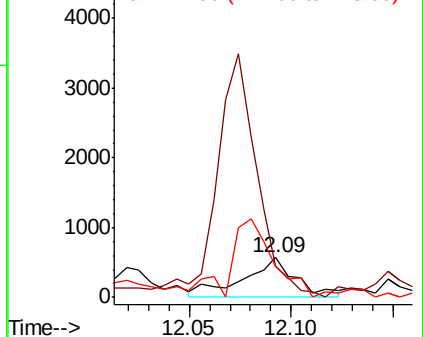
148 163.0 32.1 96.3#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#96

1,2,3-Trichlorobenzene

Concen: Below Cal

RT: 14.03 min Scan# 2155

Delta R.T. 0.01 min

Lab File: VX014474.D

Acq: 08 Jan 2020 16:21

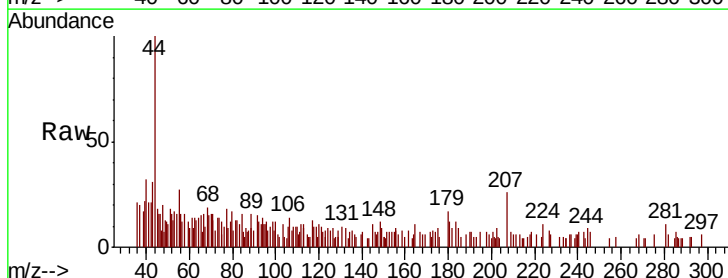
Tgt Ion:180 Resp: 448

Ion Ratio Lower Upper

180 100

182 77.9 47.9 143.6

145 0.0 14.8 44.3#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

