

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010820\
 Data File : VX014481.D
 Acq On : 08 Jan 2020 19:03
 Operator : JC/SP
 Sample : PB125936ZHE#05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 09 06:12:28 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	526703	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	822659	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	737698	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	342001	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	290409	49.39	ug/l	0.00
Spiked Amount			Recovery	=	98.78%	
35) Dibromofluoromethane	5.49	113	240817	48.36	ug/l	0.00
Spiked Amount			Recovery	=	96.72%	
50) Toluene-d8	8.71	98	975371	50.47	ug/l	0.00
Spiked Amount			Recovery	=	100.94%	
62) 4-Bromofluorobenzene	11.13	95	337469	47.57	ug/l	0.00
Spiked Amount			Recovery	=	95.14%	

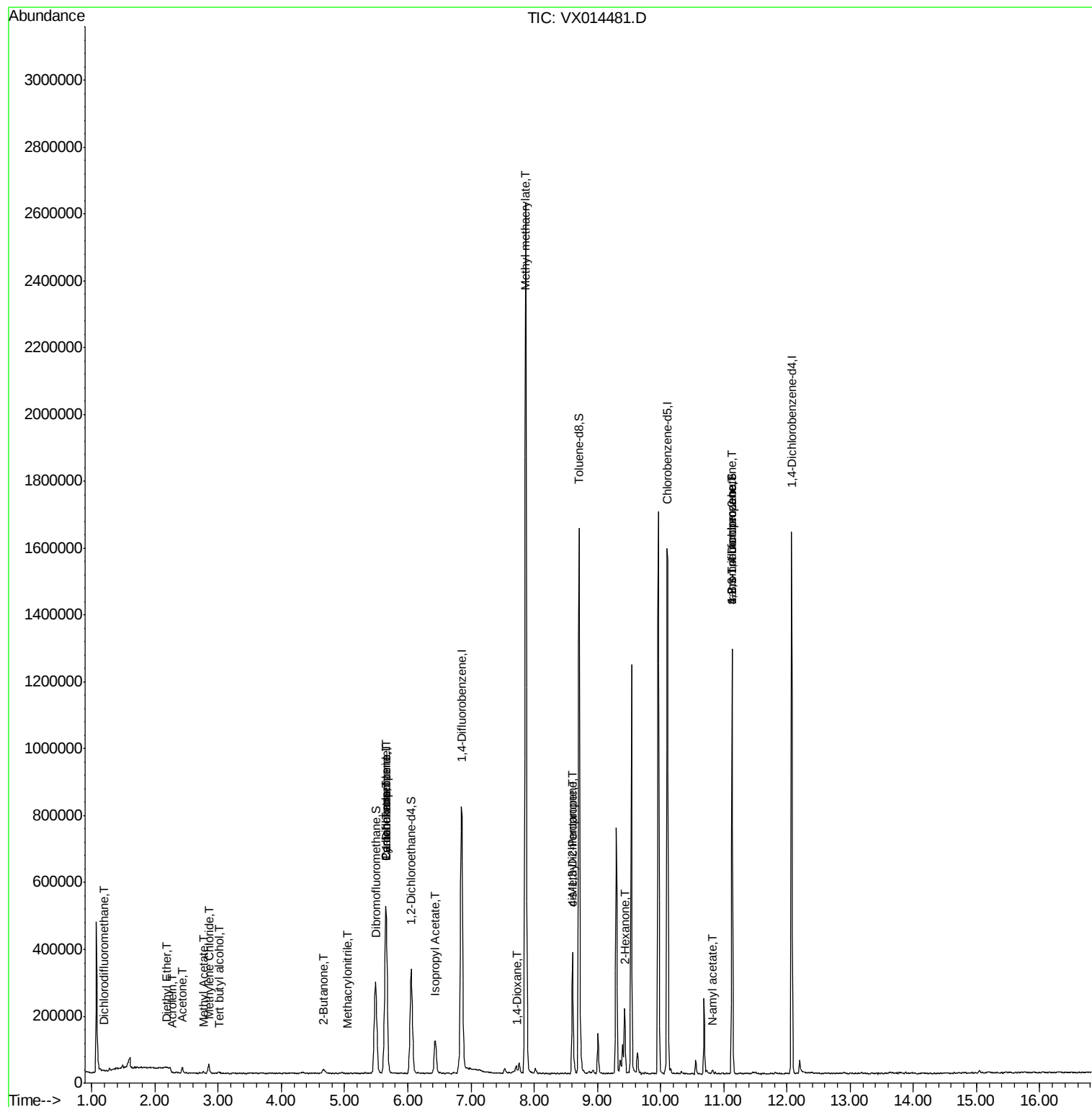
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	380	0.310	ug/l #	57
6) Chloroethane	1.70	64	755	Below Cal	#	67
8) Diethyl Ether	2.18	74	1037	0.268	ug/l	61
11) Tert butyl alcohol	3.02	59	3941	3.210	ug/l #	84
13) Acrolein	2.28	56	558	0.567	ug/l	98
16) Acetone	2.43	43	21198	3.063	ug/l	98
18) Methyl Acetate	2.76	43	6028	0.713	ug/l #	90
20) Methylene Chloride	2.85	84	12508	2.115	ug/l	94
25) 2-Butanone	4.67	43	7890	1.796	ug/l	96
31) Cyclohexane	5.65	56	10730	1.194	ug/l #	2
36) 1,1-Dichloropropene	5.65	75	34751	4.492	ug/l #	47
38) Carbon Tetrachloride	5.65	117	46179	6.487	ug/l #	17
41) Methacrylonitrile	5.04	41	1738	0.388	ug/l #	40
43) Isopropyl Acetate	6.43	43	137783	10.150	ug/l	99
48) Methyl methacrylate	7.86	41	222117	34.163	ug/l #	42
49) 1,4-Dioxane	7.73	88	429	3.114	ug/l #	23
51) 4-Methyl-2-Pentanone	8.61	43	130163	15.735	ug/l #	49
54) cis-1,3-Dichloropropene	8.61	75	60899	6.513	ug/l #	55
59) 2-Hexanone	9.43	43	152601	23.315	ug/l #	23
74) N-amyl acetate	10.82	43	6038	0.570	ug/l #	47
76) 1,2,3-Trichloropropane	11.13	75	159748	22.576	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	159748	59.686	ug/l #	12
88) 1,4-Dichlorobenzene	12.07	146	372	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	13.64	180	490	Below Cal		82
96) 1,2,3-Trichlorobenzene	14.02	180	389	Below Cal	#	54

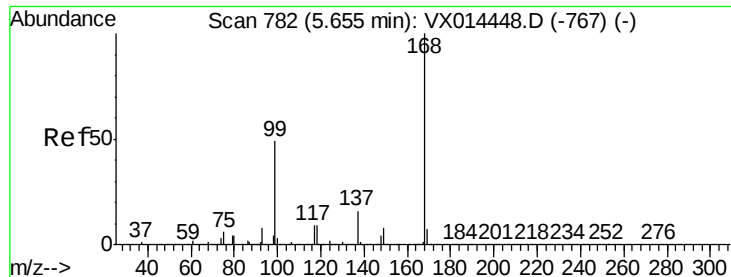
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX010820\
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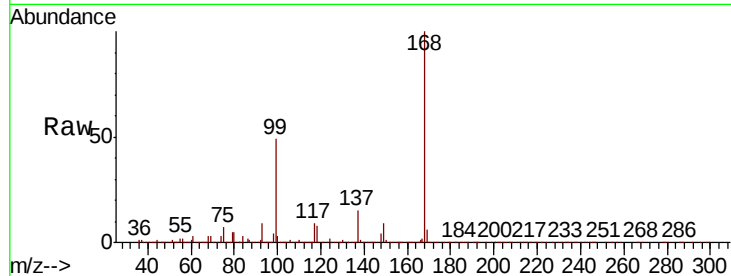


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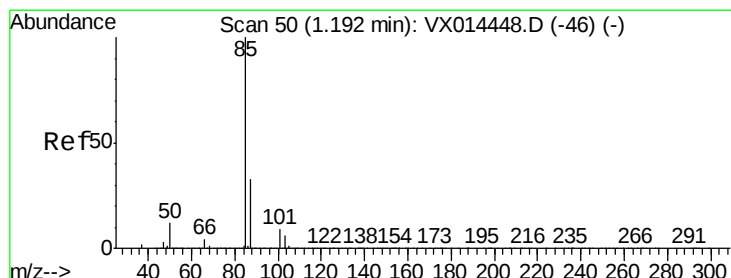
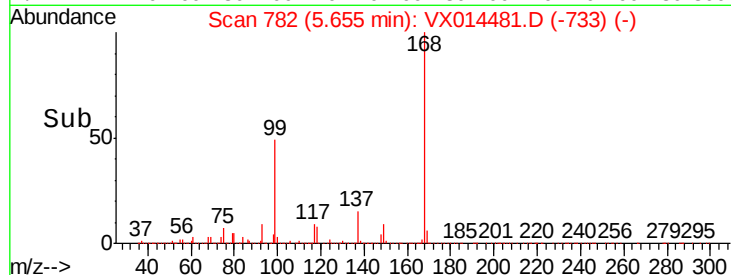
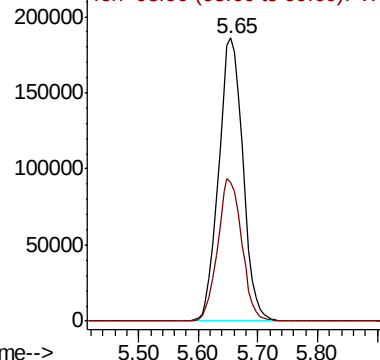
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. 0.00 min
 Lab File: VX014481.D
 Acq: 08 Jan 2020 19:03

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:168 Resp: 526703
 Ion Ratio Lower Upper
 168 100
 99 49.1 39.2 58.8



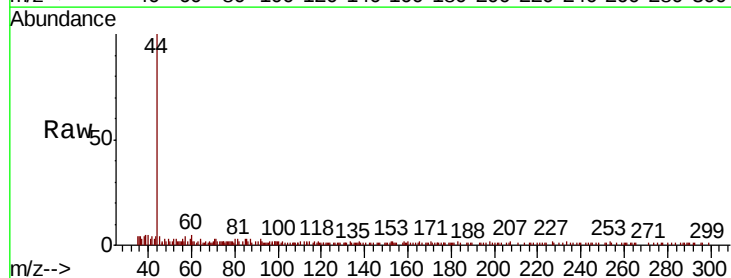
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VX0



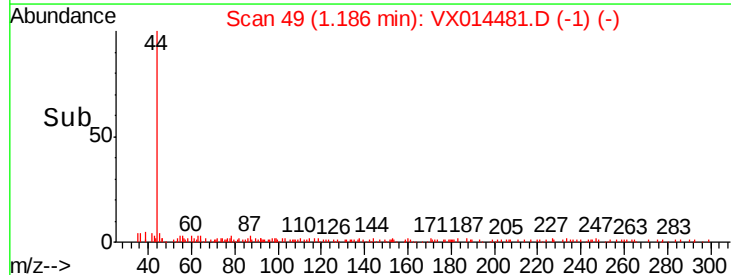
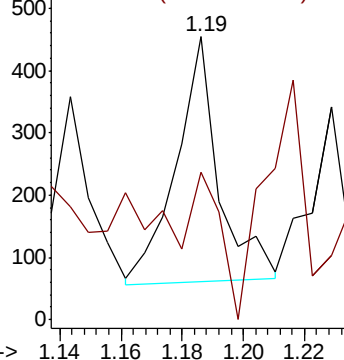
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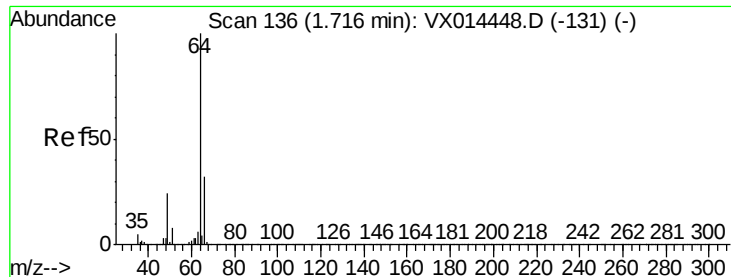
Dichlorodifluoromethane
 Concen: 0.310 ug/l
 RT: 1.19 min Scan# 49
 Delta R.T. -0.01 min
 Lab File: VX014481.D
 Acq: 08 Jan 2020 19:03

Tgt Ion: 85 Resp: 380
 Ion Ratio Lower Upper
 85 100
 87 8.8 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: 1.70 min Scan# 134

Delta R.T. -0.01 min

Lab File: VX014481.D

Acq: 08 Jan 2020 19:03

Instrument :

MSVOA_X

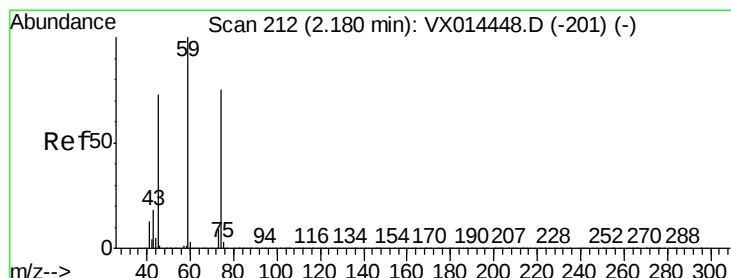
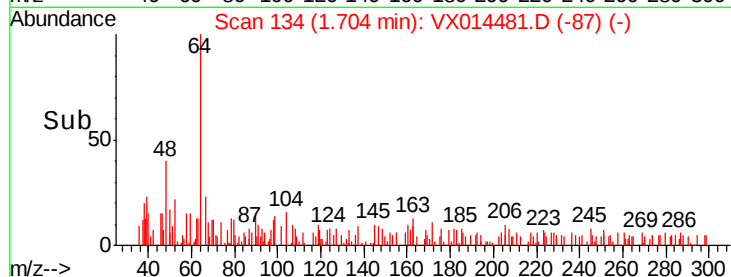
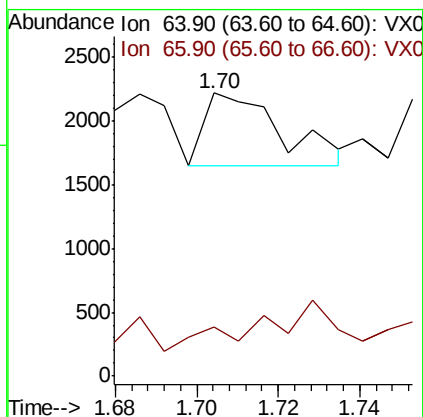
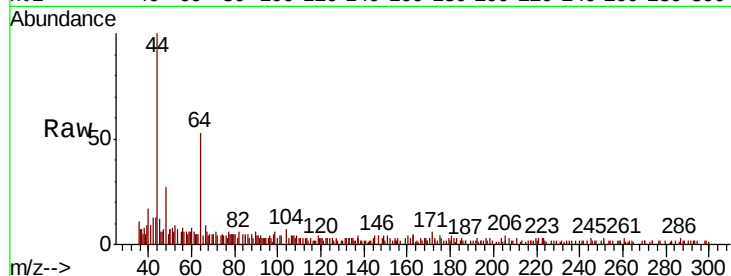
ClientSampleId :

Tot Ion: 64 Resp: 755

Ion Ratio Lower Upper

64 100

66 13.4 25.3 37.9#



#8

Diethyl Ether

Concen: 0.268 ug/l

RT: 2.18 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX014481.D

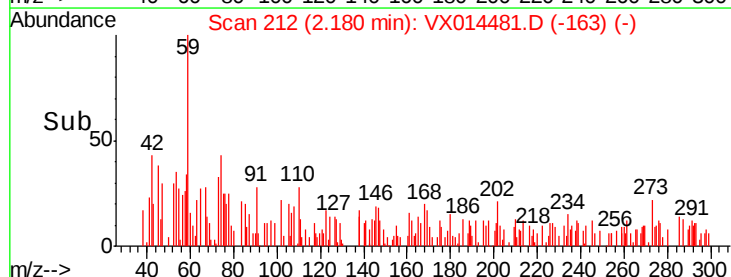
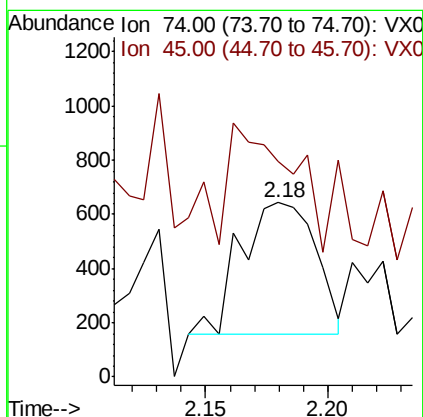
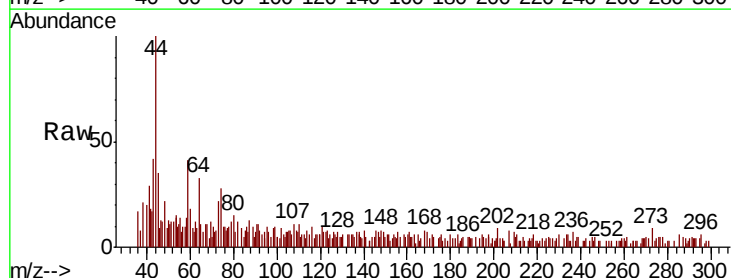
Acq: 08 Jan 2020 19:03

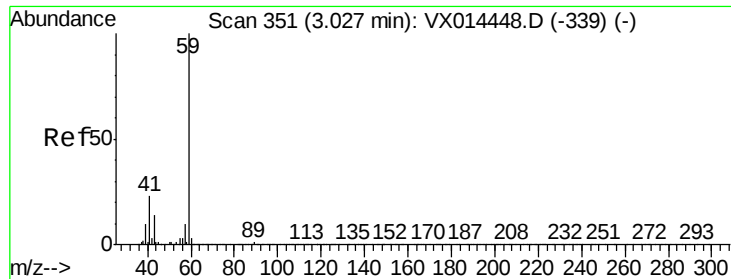
Tgt Ion: 74 Resp: 1037

Ion Ratio Lower Upper

74 100

45 136.3 48.7 146.1

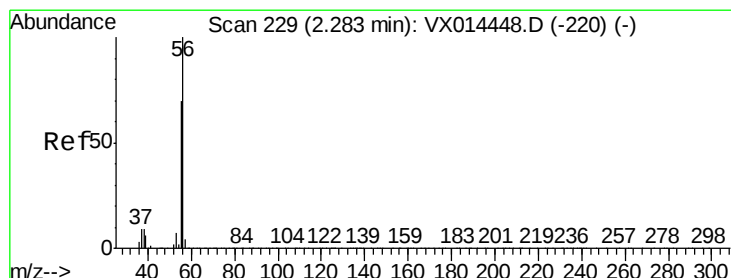
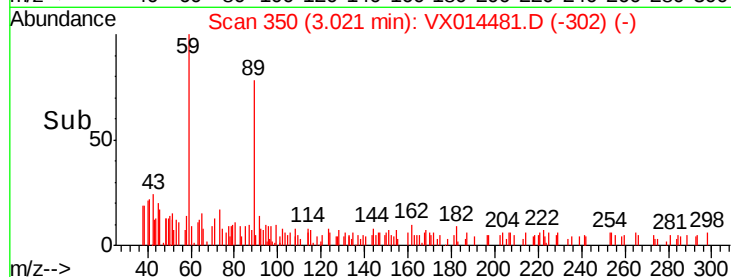
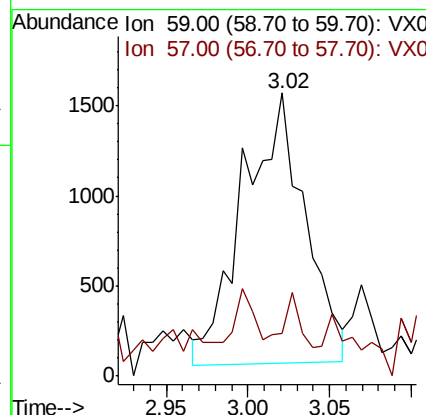
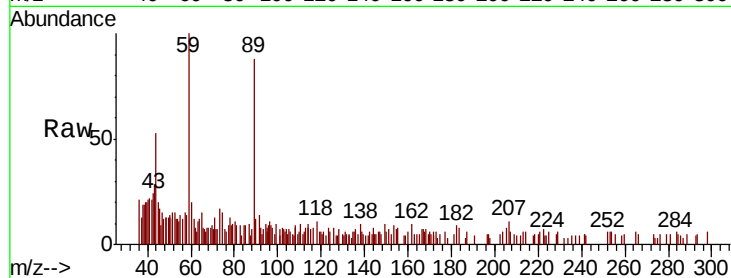




#11
Tert butyl alcohol
Concen: 3.210 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.01 min
Lab File: VX014481.D
Acq: 08 Jan 2020 19:03

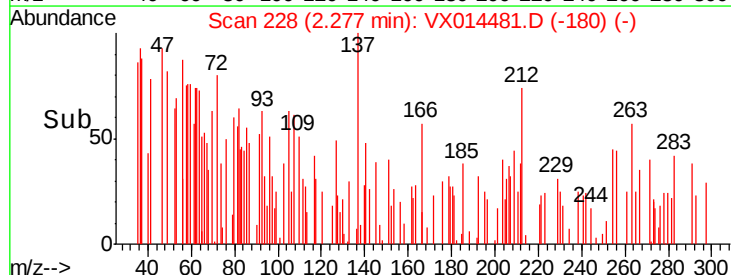
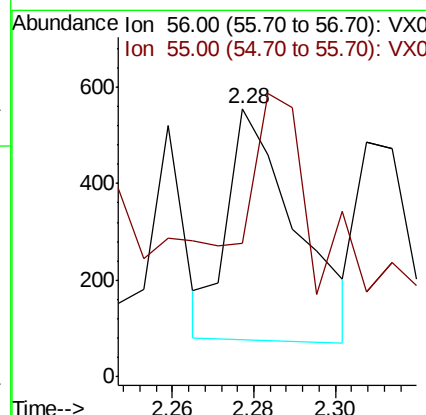
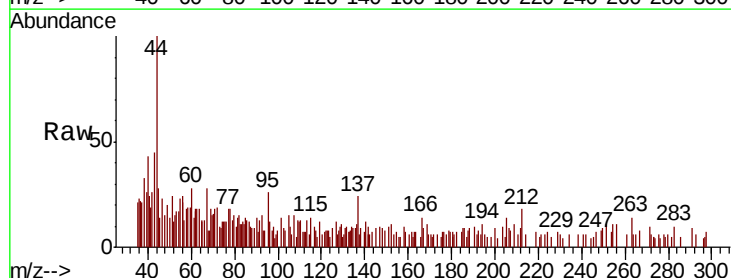
Instrument :
MSVOA_X
ClientSampleId :

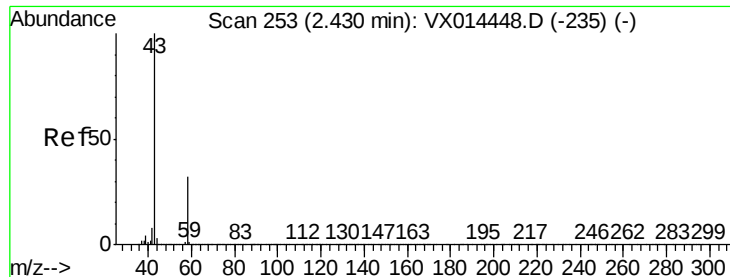
Tot Ion: 59 Resp: 3941
Ion Ratio Lower Upper
59 100
57 4.4 8.5 12.7#



#13
Acrolein
Concen: 0.567 ug/l
RT: 2.28 min Scan# 228
Delta R.T. -0.01 min
Lab File: VX014481.D
Acq: 08 Jan 2020 19:03

Tgt Ion: 56 Resp: 558
Ion Ratio Lower Upper
56 100
55 67.6 55.0 82.6





#16

Acetone

Concen: 3.063 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014481.D

Acq: 08 Jan 2020 19:03

Instrument :

MSVOA_X

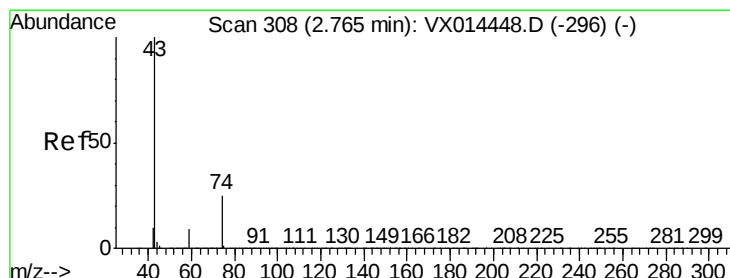
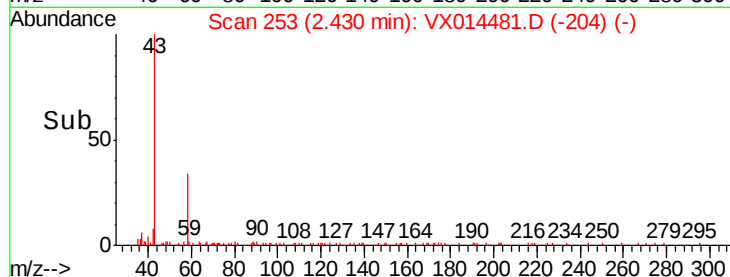
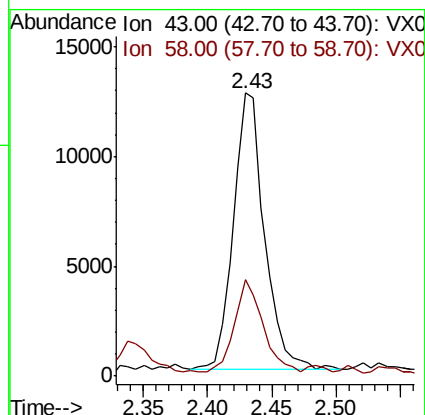
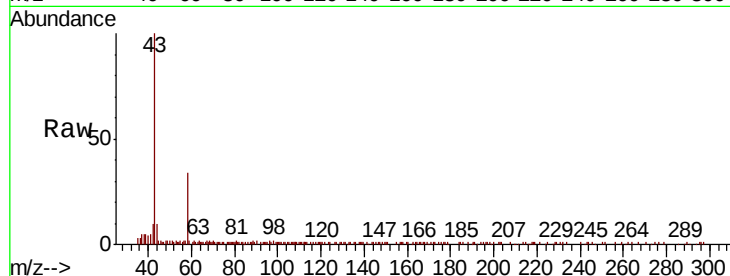
ClientSampled :

Tot Ion: 43 Resp: 21198

Ion Ratio Lower Upper

43 100

58 32.9 25.4 38.0



#18

Methyl Acetate

Concen: 0.713 ug/l

RT: 2.76 min Scan# 308

Delta R.T. 0.00 min

Lab File: VX014481.D

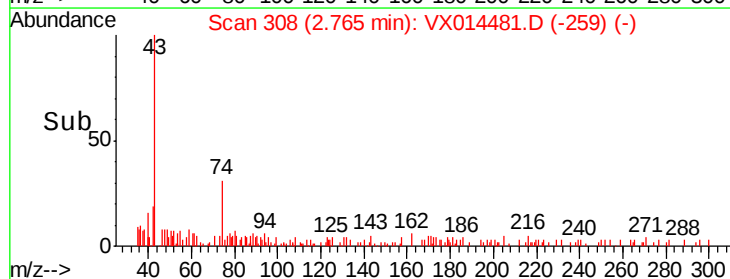
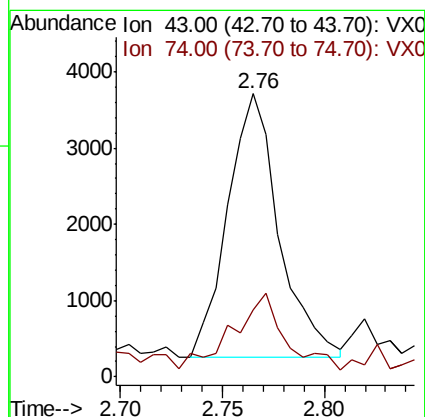
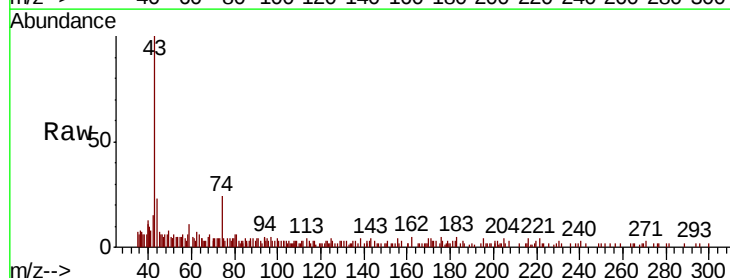
Acq: 08 Jan 2020 19:03

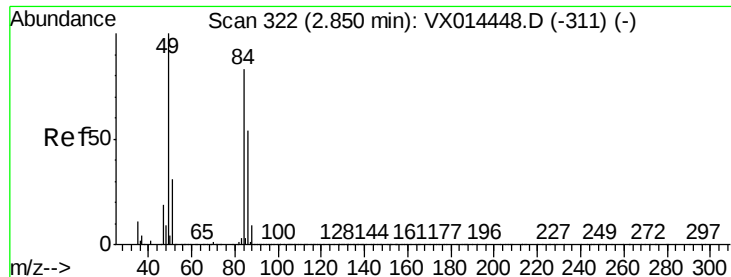
Tgt Ion: 43 Resp: 6028

Ion Ratio Lower Upper

43 100

74 29.4 19.4 29.2#

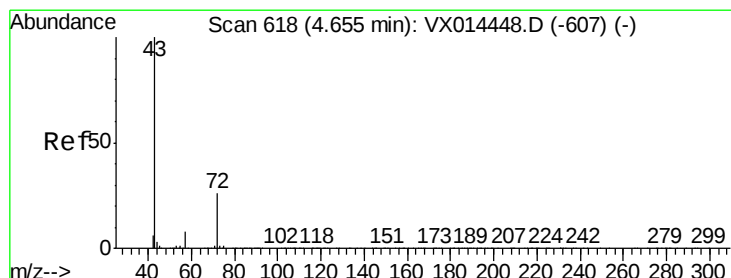
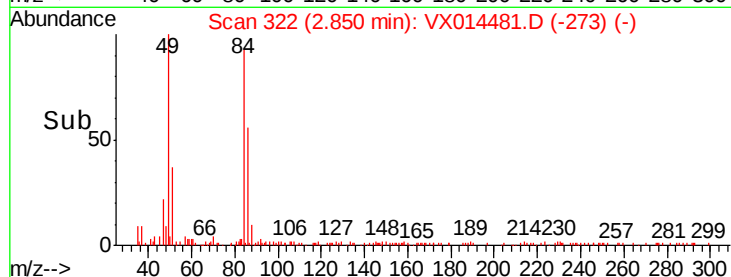
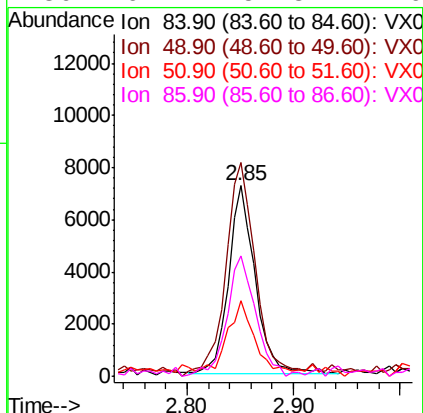
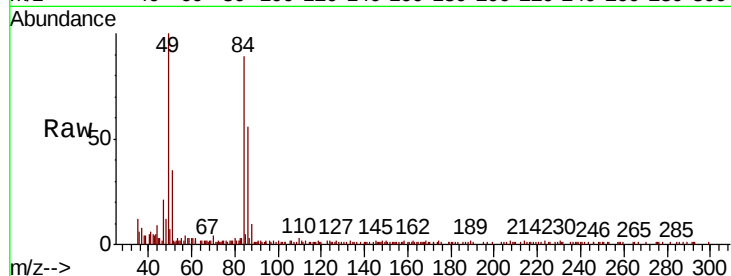




#20
Methvlene Chloride
Concen: 2.115 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014481.D
Acq: 08 Jan 2020 19:03

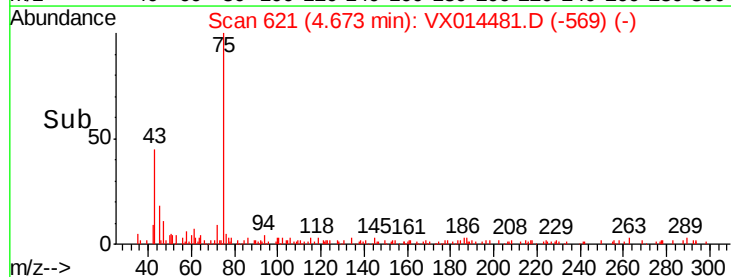
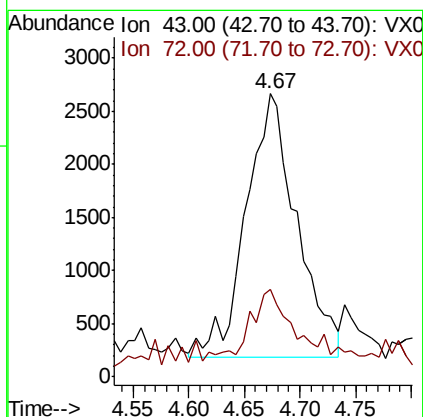
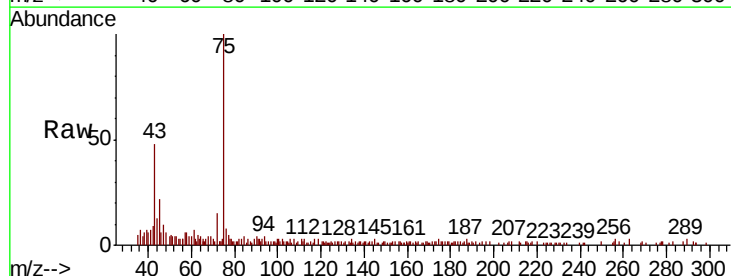
Instrument :
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ClientSampleId :

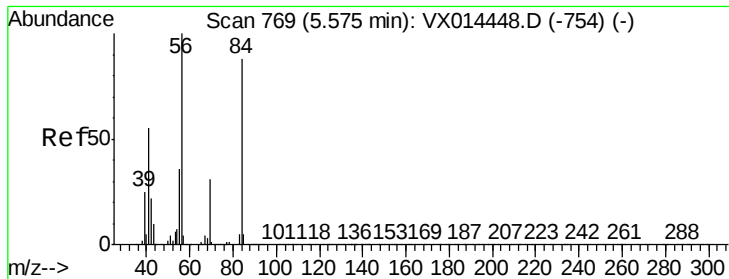
Tot Ion:	84	Resp:	12508
Ion	Ratio	Lower	Upper
84	100		
49	111.2	95.8	143.8
51	37.4	30.2	45.4
86	61.2	51.8	77.6



#25
2-Butanone
Concen: 1.796 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.02 min
Lab File: VX014481.D
Acq: 08 Jan 2020 19:03

Tgt Ion:	43	Resp:	7890
Ion	Ratio	Lower	Upper
43	100		
72	27.7	20.6	31.0

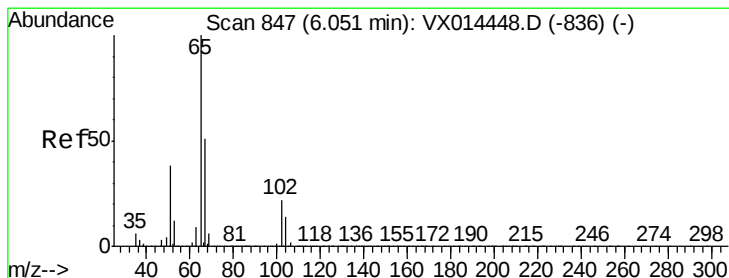
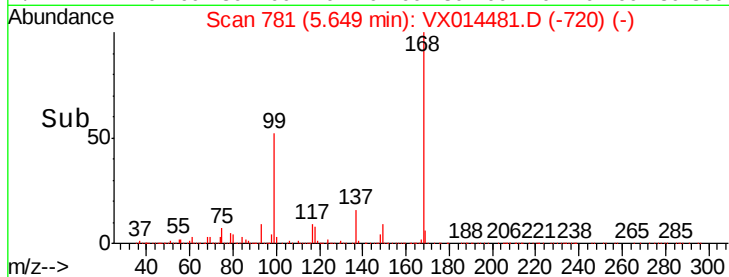
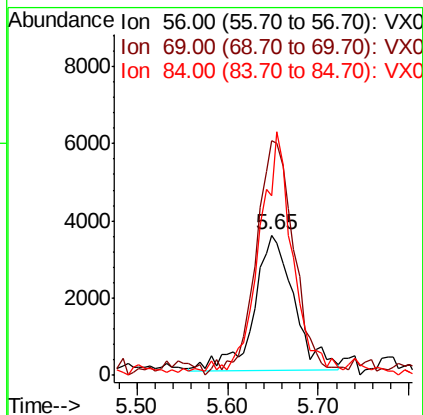
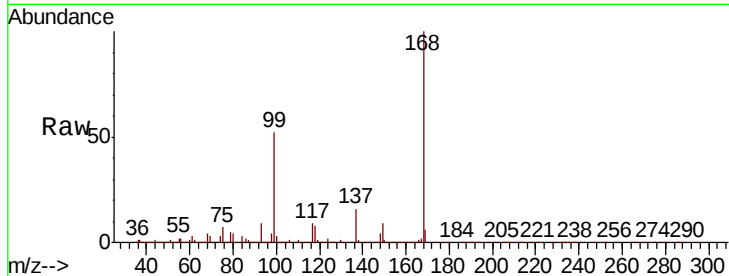




#31
Cyclohexane
Concen: 1.194 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.07 min
Lab File: VX014481.D
Acq: 08 Jan 2020 19:03

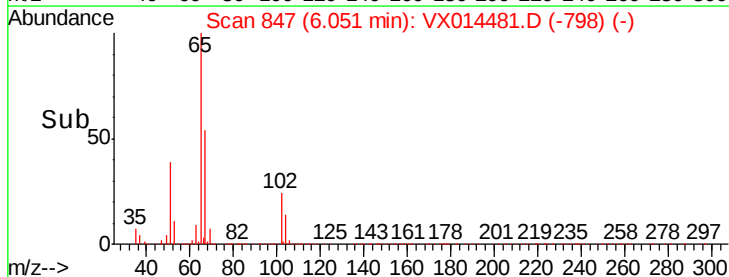
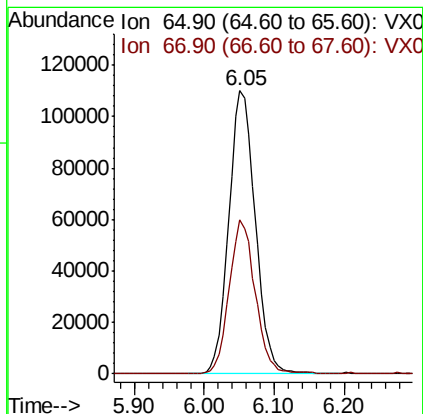
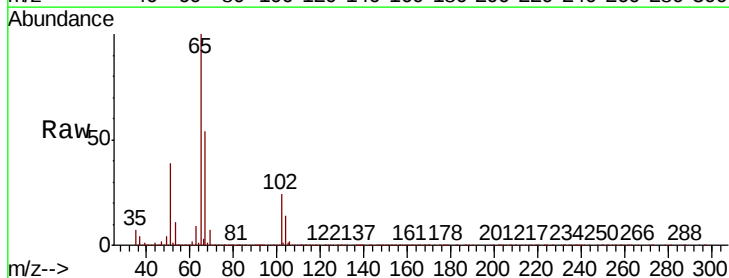
Instrument :
MSVOA_X
ClientSampleId :

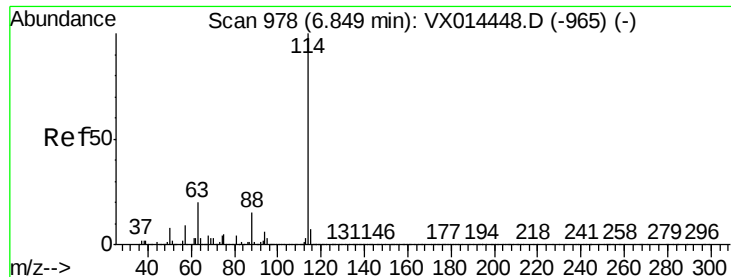
Tot Ion: 56 Resp: 10730
Ion Ratio Lower Upper
56 100
69 166.4 24.4 36.6#
84 131.5 70.6 106.0#



#33
1,2-Dichloroethane-d4
Concen: 49.391 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014481.D
Acq: 08 Jan 2020 19:03

Tgt Ion: 65 Resp: 290409
Ion Ratio Lower Upper
65 100
67 53.0 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: VX014481.D

Acq: 08 Jan 2020 19:03

Instrument :

MSVOA_X

ClientSampleId :

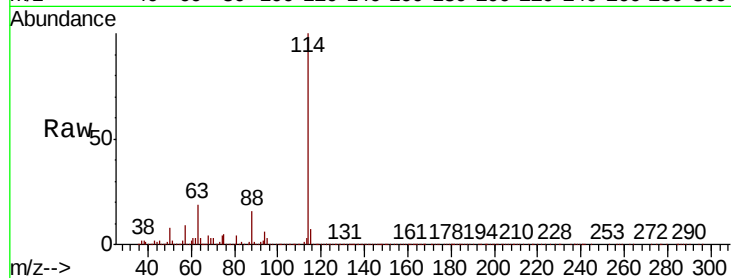
Tot Ion:114 Resp: 822659

Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.6

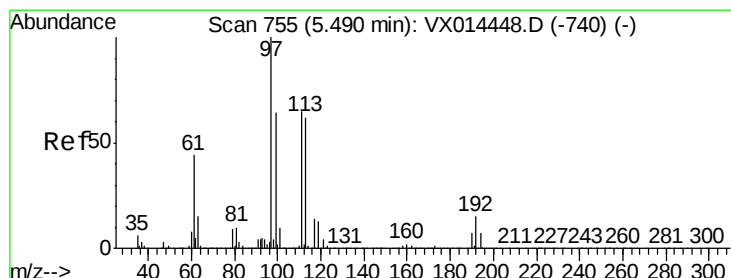
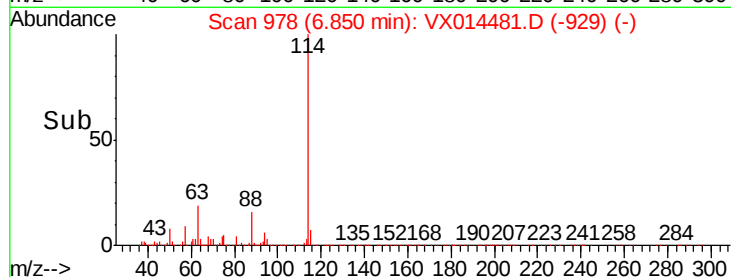
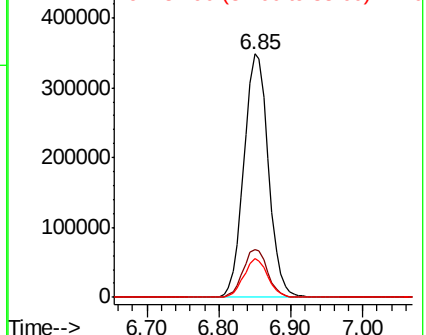
88 16.0 0.0 30.8



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



#35

Dibromofluoromethane

Concen: 48.358 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014481.D

Acq: 08 Jan 2020 19:03

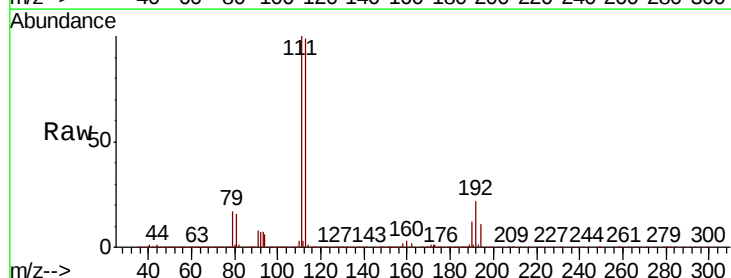
Tgt Ion:113 Resp: 240817

Ion Ratio Lower Upper

113 100

111 102.6 81.5 122.3

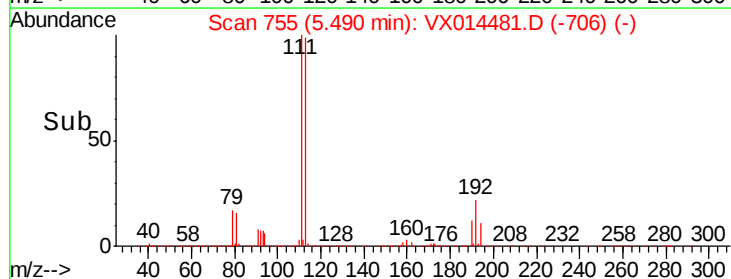
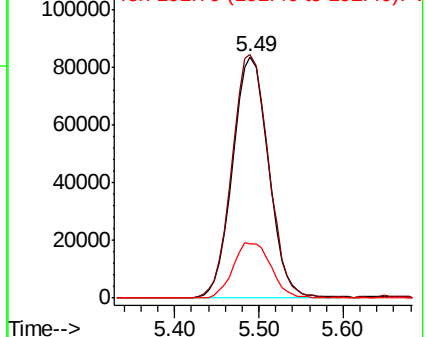
192 24.3 19.2 28.8

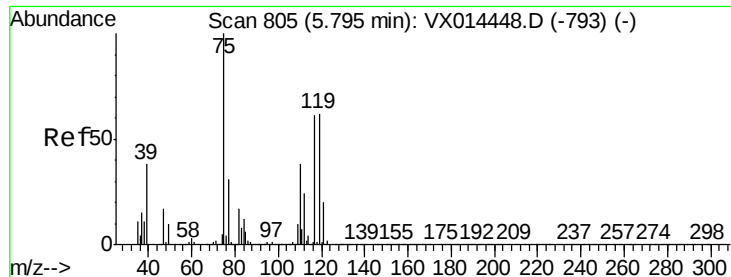


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

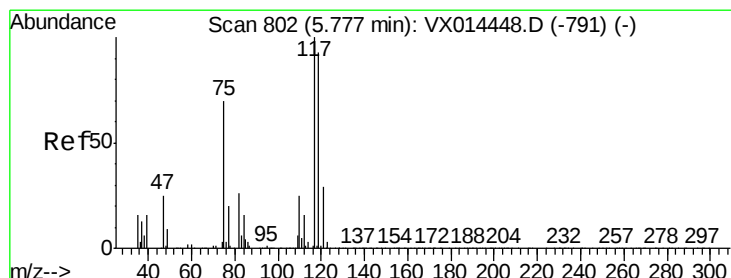
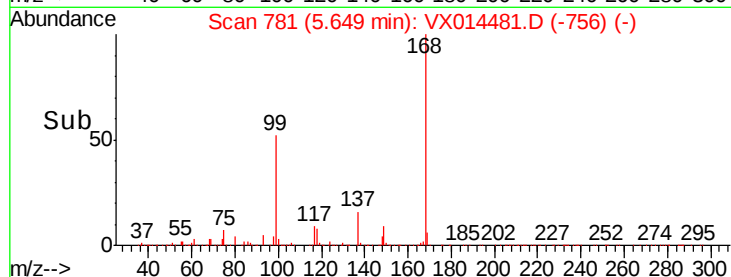
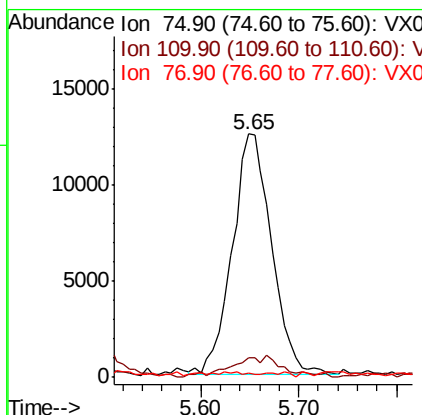
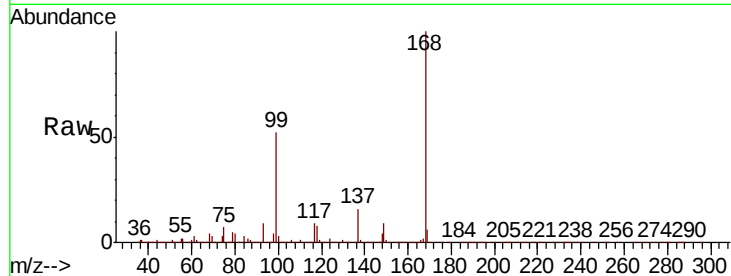




#36
 1,1-Dichloropropene
 Concen: 4.492 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX014481.D
 Acq: 08 Jan 2020 19:03

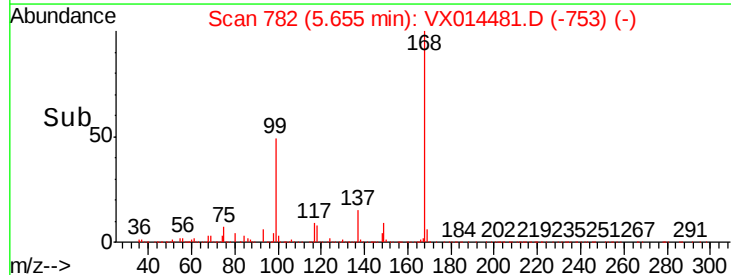
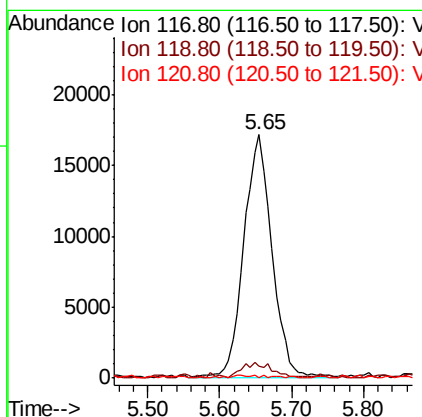
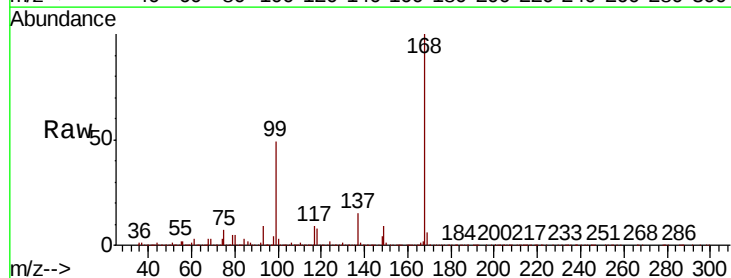
Instrument :
 MSVOA_X
 ClientSampleId :

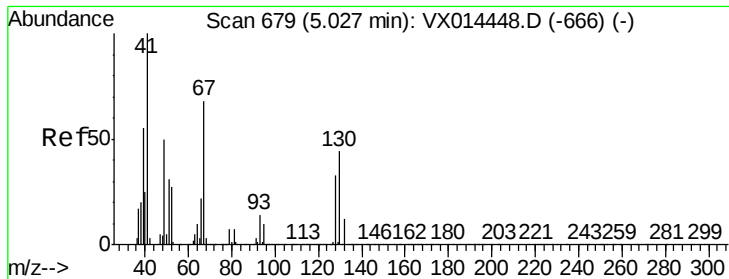
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.0	18.6	55.8#
77	0.0	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.487 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX014481.D
 Acq: 08 Jan 2020 19:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	73.8	110.8#
121	0.3	23.4	35.0#

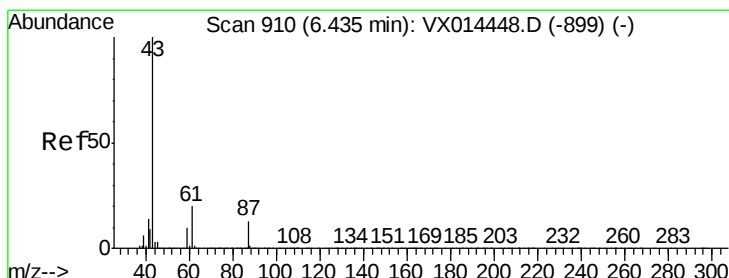
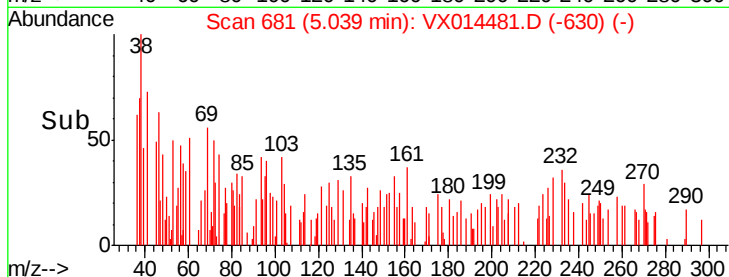
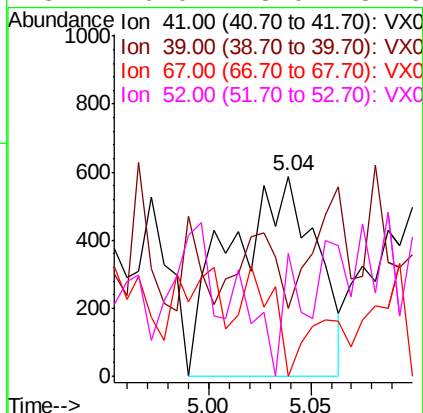
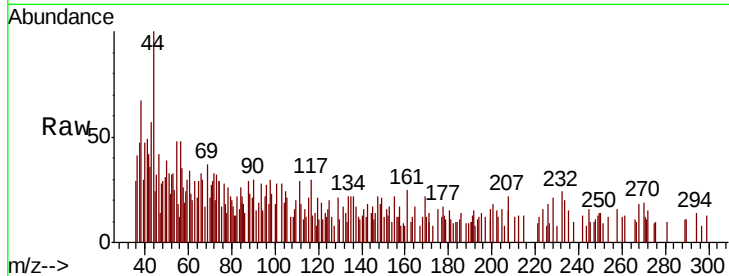




#41
Methacrylonitrile
Concen: 0.388 ug/l
RT: 5.04 min Scan# 681
Delta R.T. 0.01 min
Lab File: VX014481.D
Acq: 08 Jan 2020 19:03

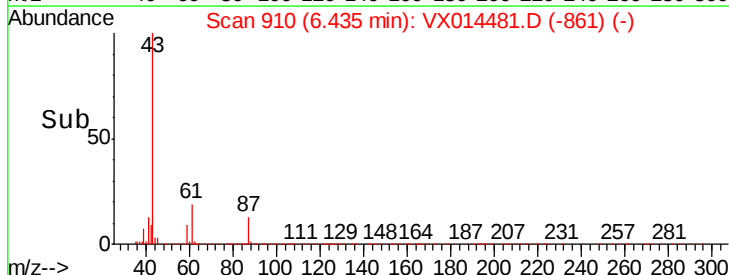
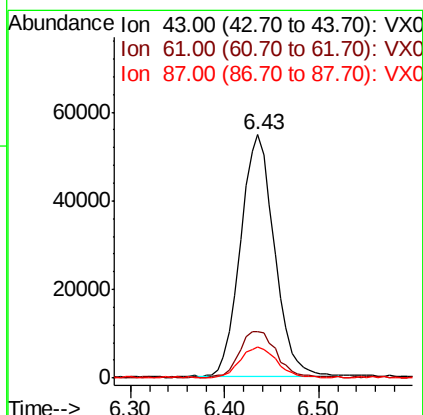
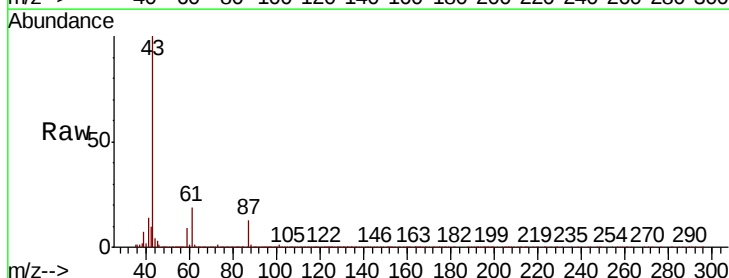
Instrument :
MSVOA_X
ClientSampleId :

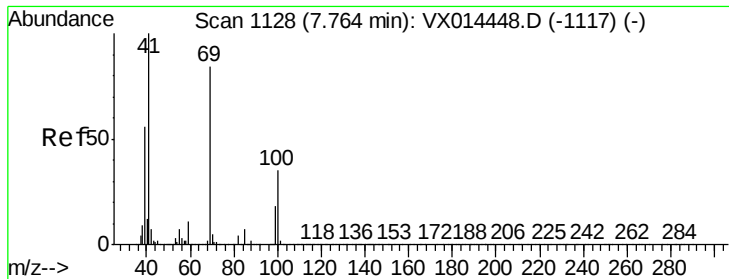
Tot Ion: 41 Resp: 1738
Ion Ratio Lower Upper
41 100
39 16.3 43.6 65.4#
67 16.6 57.9 86.9#
52 0.0 23.0 34.6#



#43
Isopropyl Acetate
Concen: 10.150 ug/l
RT: 6.43 min Scan# 910
Delta R.T. 0.00 min
Lab File: VX014481.D
Acq: 08 Jan 2020 19:03

Tgt Ion: 43 Resp: 137783
Ion Ratio Lower Upper
43 100
61 20.6 16.6 24.8
87 13.2 10.8 16.2

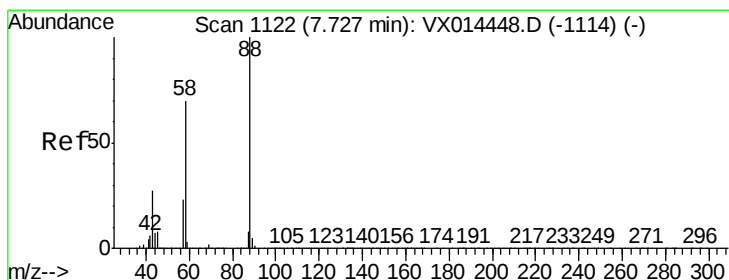
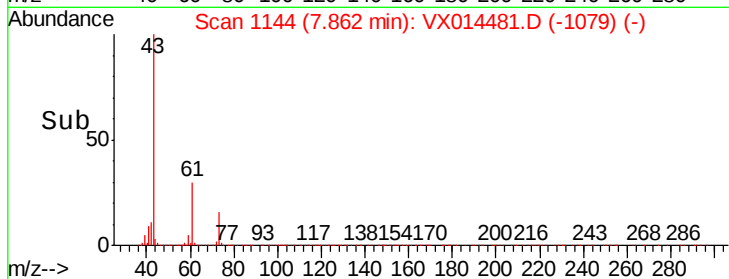
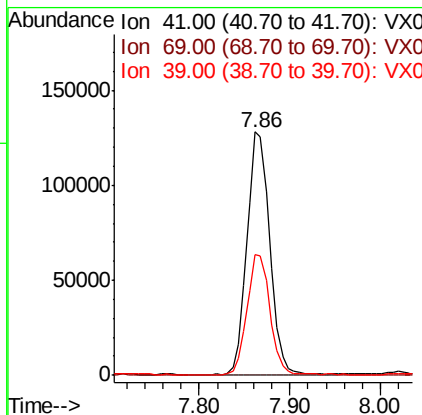
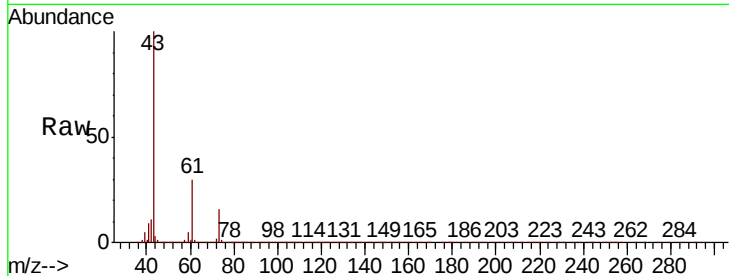




#48
Methvl methacrylate
Concen: 34.163 ug/l
RT: 7.86 min Scan# 1144
Delta R.T. 0.10 min
Lab File: VX014481.D
Acq: 08 Jan 2020 19:03

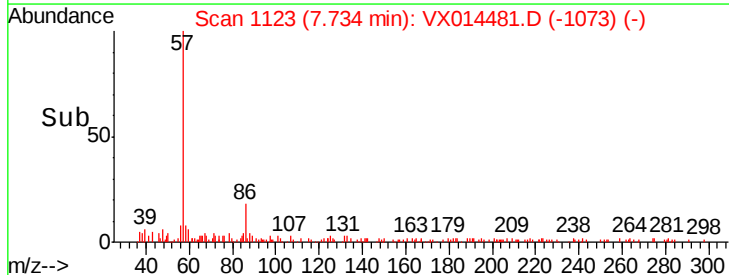
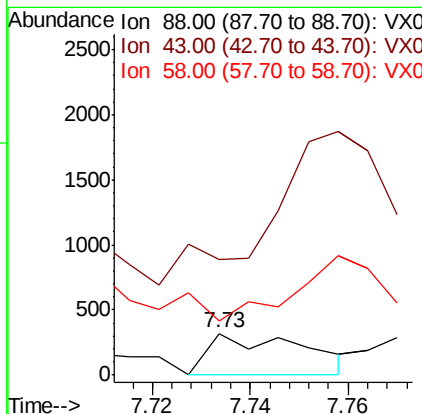
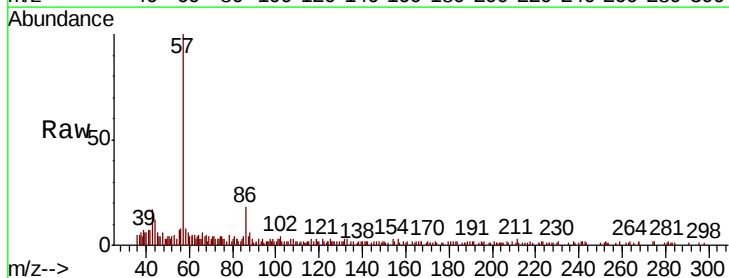
Instrument :
MSVOA_X
ClientSampleId :

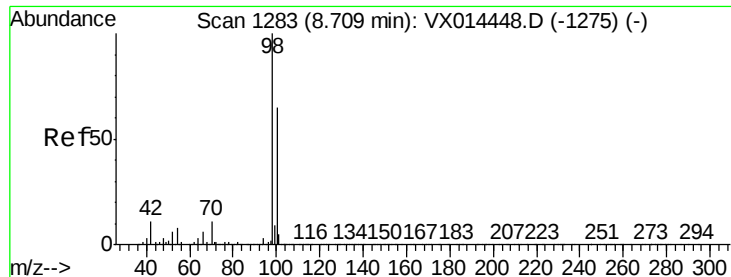
Tot Ion: 41 Resp: 222117
Ion Ratio Lower Upper
41 100
69 0.1 65.5 98.3#
39 49.8 43.9 65.9



#49
1,4-Dioxane
Concen: 3.114 ug/l
RT: 7.73 min Scan# 1123
Delta R.T. 0.01 min
Lab File: VX014481.D
Acq: 08 Jan 2020 19:03

Tgt Ion: 88 Resp: 429
Ion Ratio Lower Upper
88 100
43 0.0 27.4 41.0#
58 0.0 57.1 85.7#





#50

Toluene-d8

Concen: 50.471 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014481.D

Acq: 08 Jan 2020 19:03

Instrument :

MSVOA_X

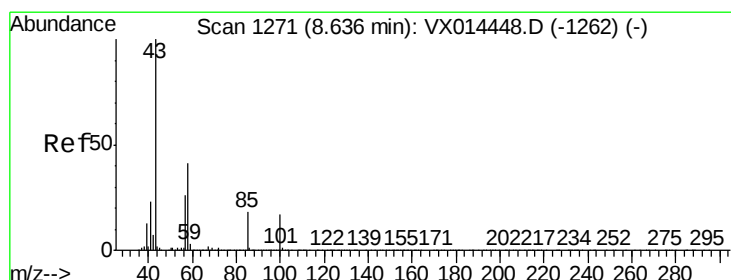
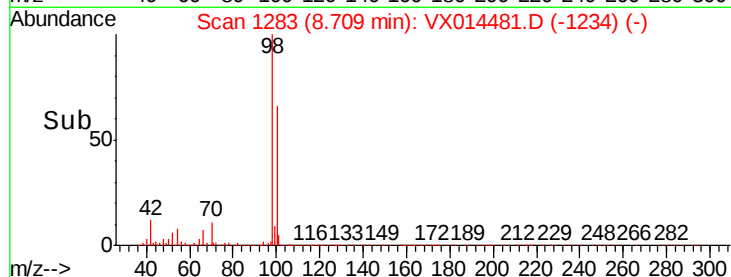
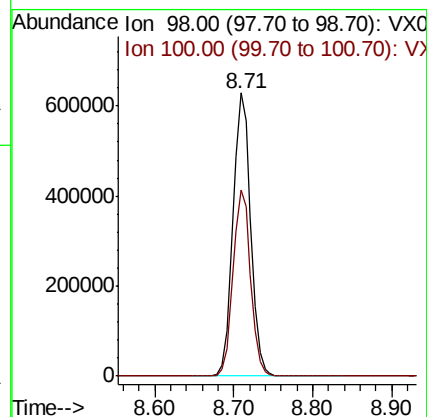
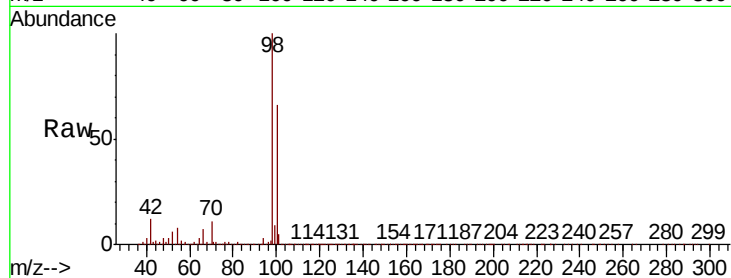
ClientSampleId :

Tot Ion: 98 Resp: 975371

Ion Ratio Lower Upper

98 100

100 65.3 53.2 79.8



#51

4-Methyl-2-Pentanone

Concen: 15.735 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. -0.03 min

Lab File: VX014481.D

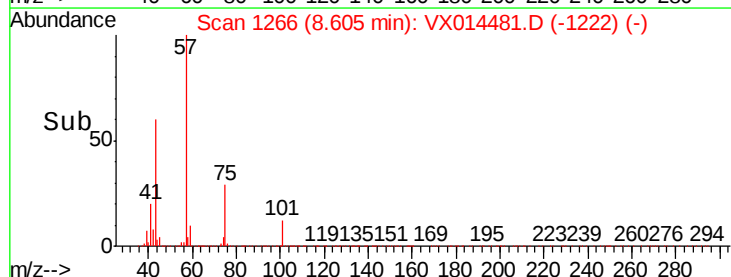
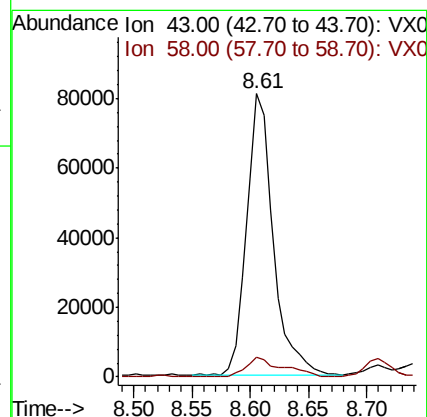
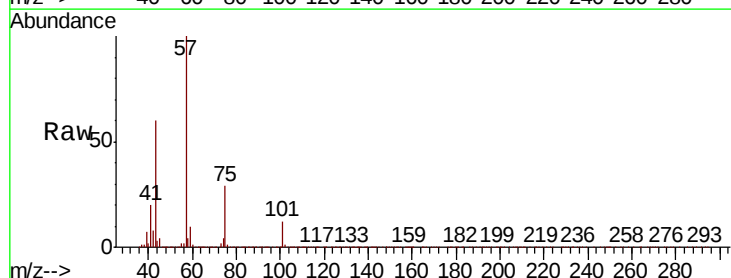
Acq: 08 Jan 2020 19:03

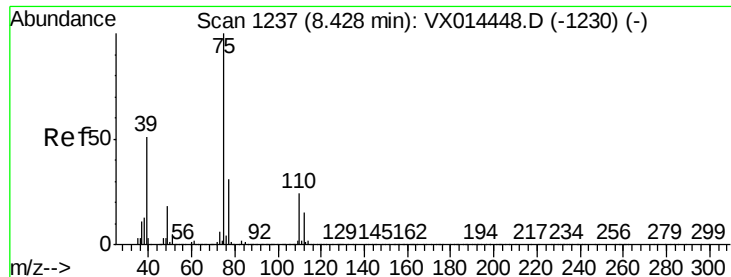
Tgt Ion: 43 Resp: 130163

Ion Ratio Lower Upper

43 100

58 8.8 32.4 48.6#



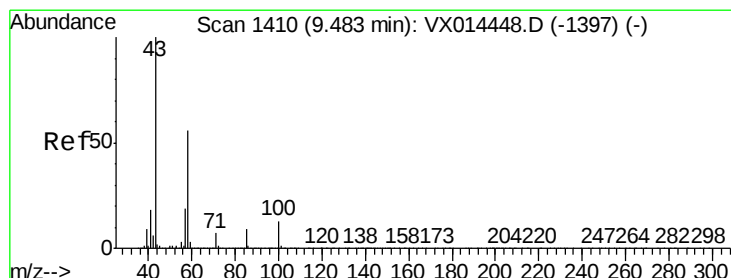
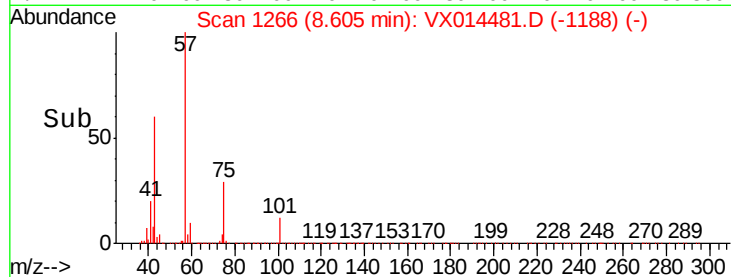
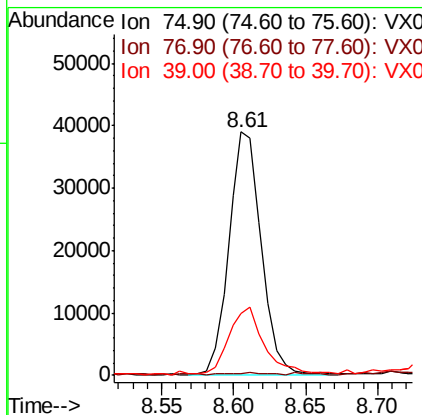
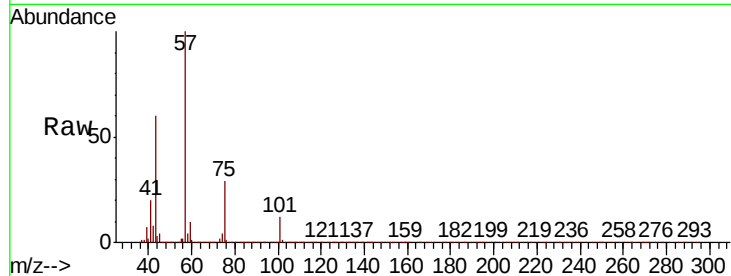


#54

cis-1,3-Dichloropropene
 Concen: 6.513 ug/l
 RT: 8.61 min Scan# 1266
 Delta R.T. 0.18 min
 Lab File: VX014481.D
 Acq: 08 Jan 2020 19:03

Instrument :
 MSVOA_X
 ClientSampled :

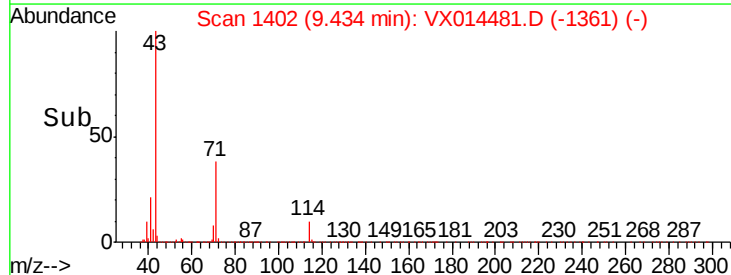
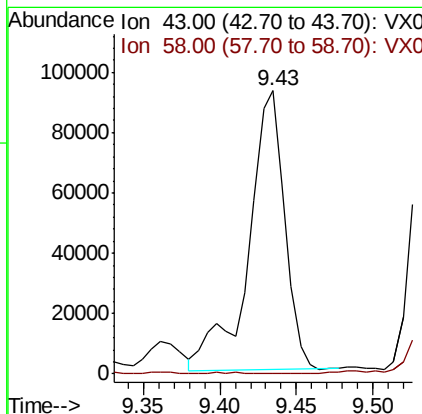
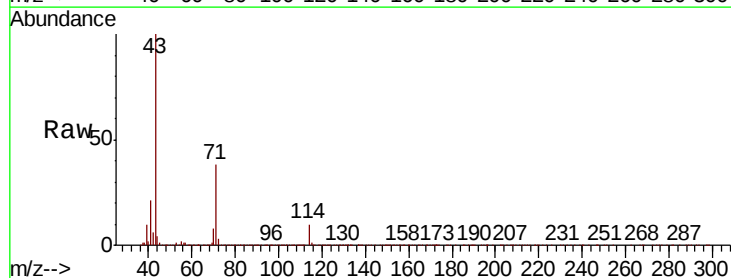
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.2	25.0	37.4#
39	24.7	40.7	61.1#

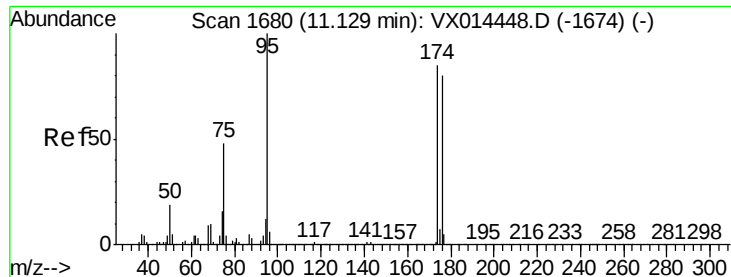


#59

2-Hexanone
 Concen: 23.315 ug/l
 RT: 9.43 min Scan# 1402
 Delta R.T. -0.05 min
 Lab File: VX014481.D
 Acq: 08 Jan 2020 19:03

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

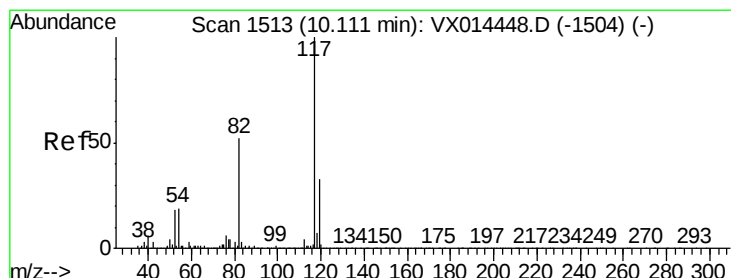
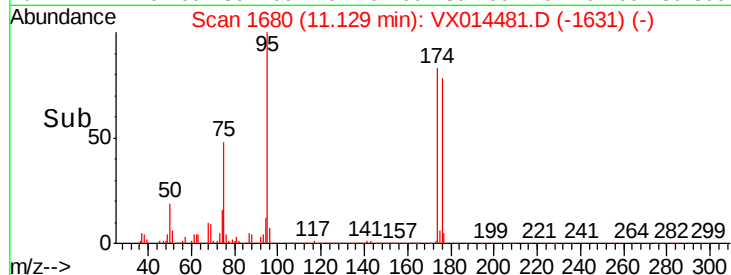
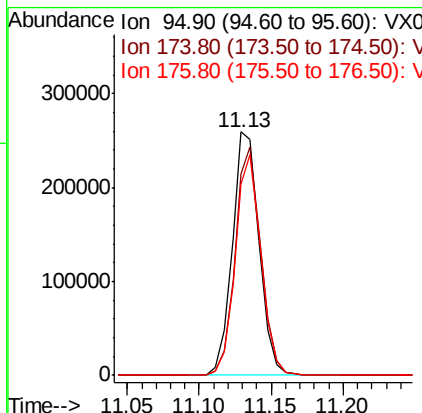
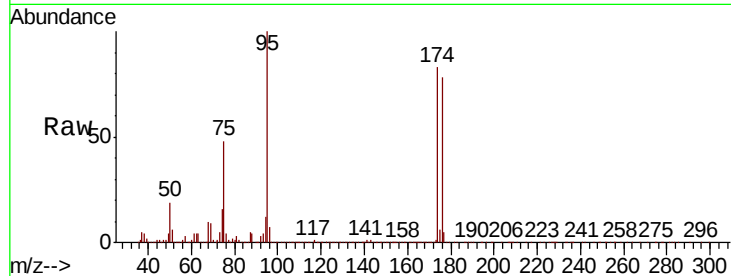




#62
4-Bromofluorobenzene
Concen: 47.567 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX014481.D
Acq: 08 Jan 2020 19:03

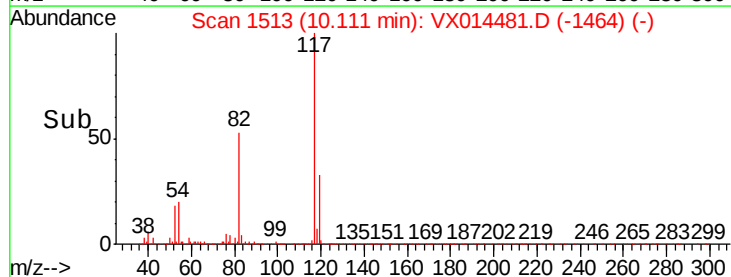
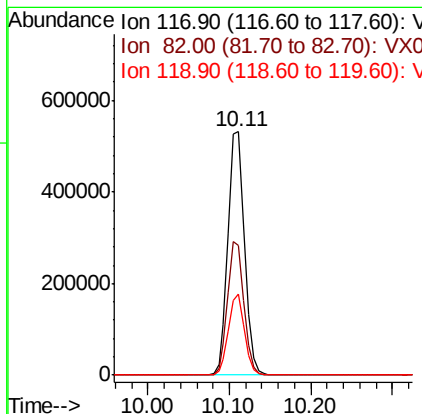
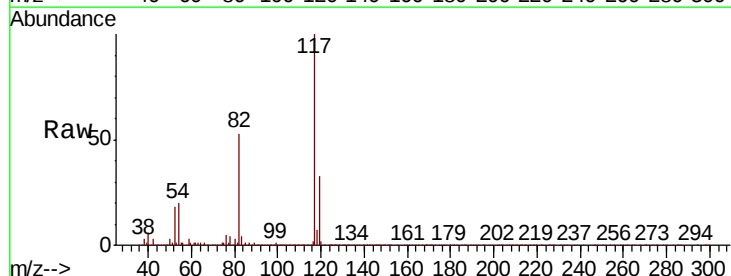
Instrument :
MSVOA_X
ClientSampleId :

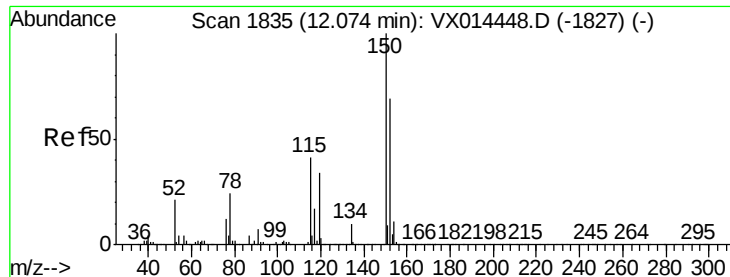
Tot Ion	Ratio	Lower	Upper
95	100		
174	89.7	0.0	180.8
176	86.5	0.0	172.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014481.D
Acq: 08 Jan 2020 19:03

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.2	41.8	62.6
119	33.4	26.2	39.4

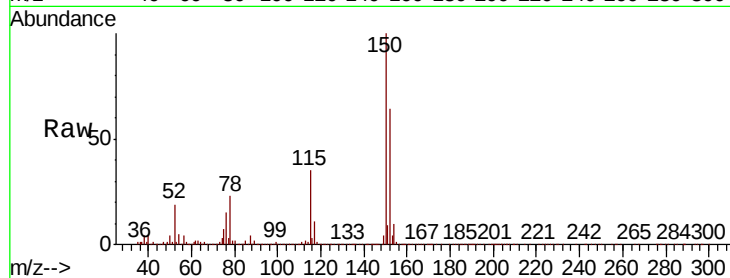




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014481.D
Acq: 08 Jan 2020 19:03

Instrument :
MSVOA_X
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.8	39.5	118.3
150	154.7	0.0	350.2

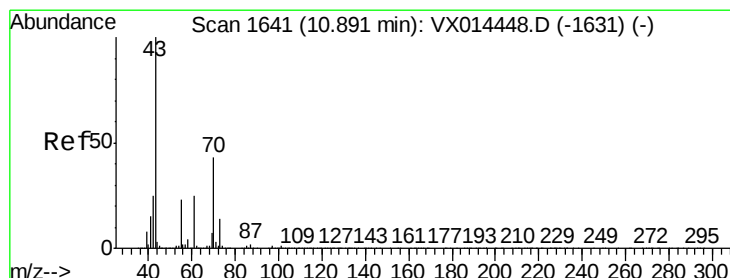
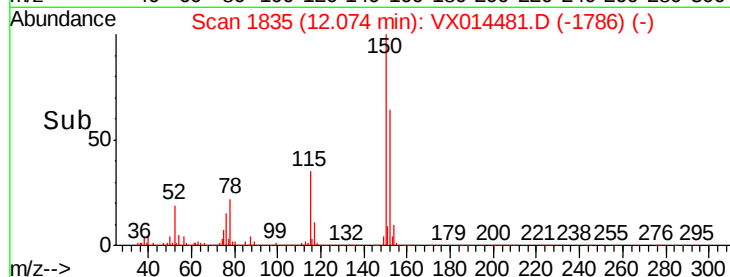
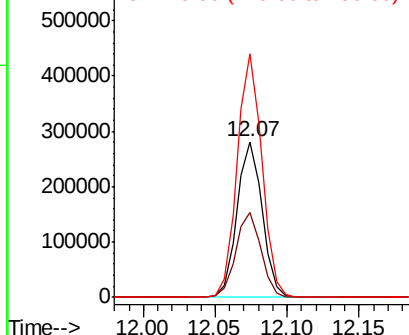


Abundance

Ion 151.90 (151.60 to 152.60): V

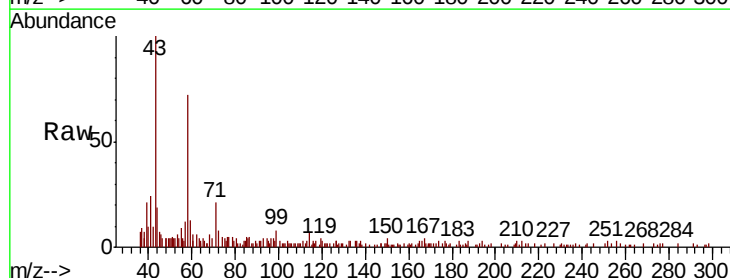
Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74
N-ethyl acetate
Concen: 0.570 ug/l
RT: 10.82 min Scan# 1629
Delta R.T. -0.07 min
Lab File: VX014481.D
Acq: 08 Jan 2020 19:03

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	35.1	52.7#
55	9.0	19.3	28.9#
61	0.0	20.0	30.0#



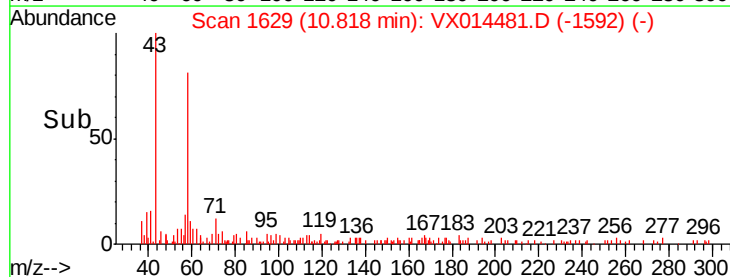
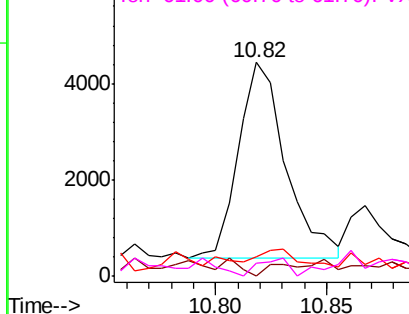
Abundance

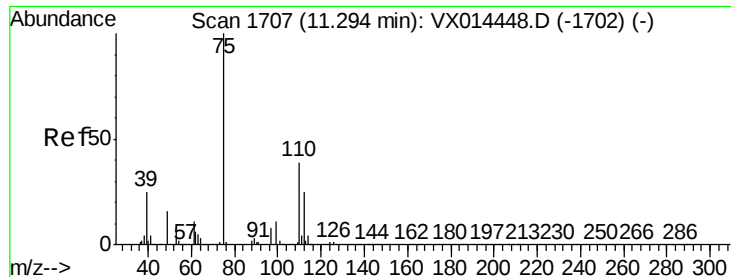
Ion 43.00 (42.70 to 43.70): VX0

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: 22.576 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014481.D

Acq: 08 Jan 2020 19:03

Instrument :

MSVOA_X

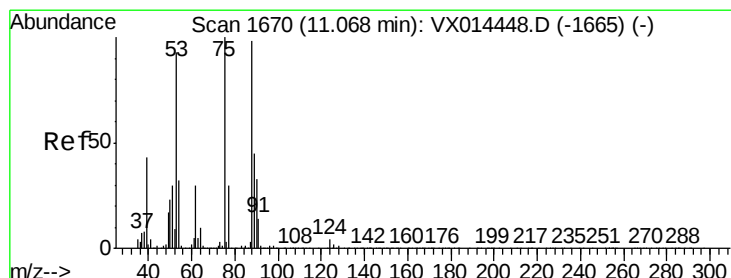
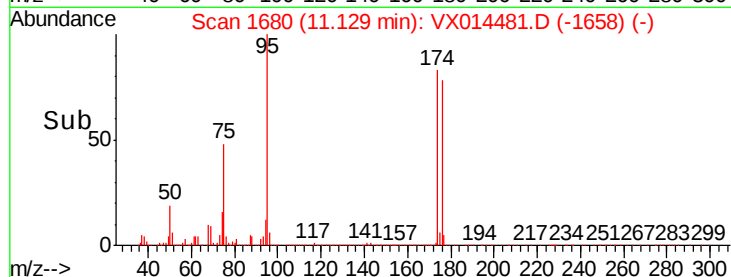
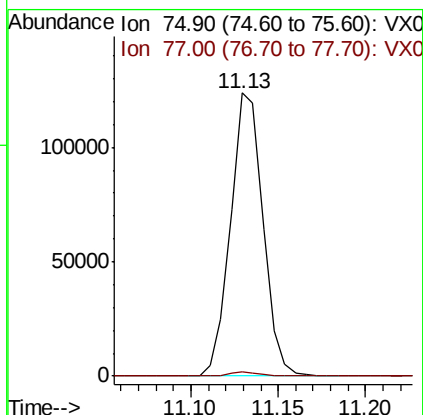
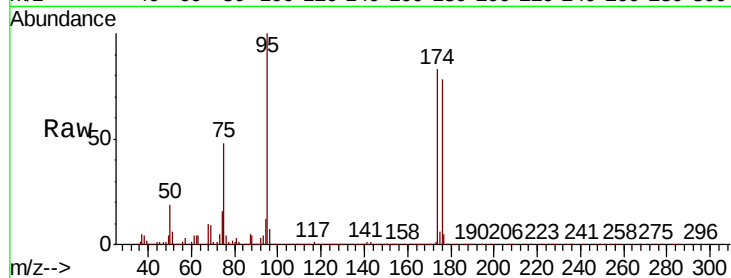
ClientSampleId :

Tot Ion: 75 Resp: 159748

Ion Ratio Lower Upper

75 100

77 1.5 21.9 65.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.686 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014481.D

Acq: 08 Jan 2020 19:03

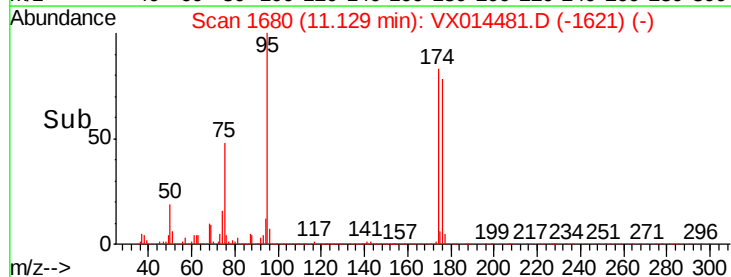
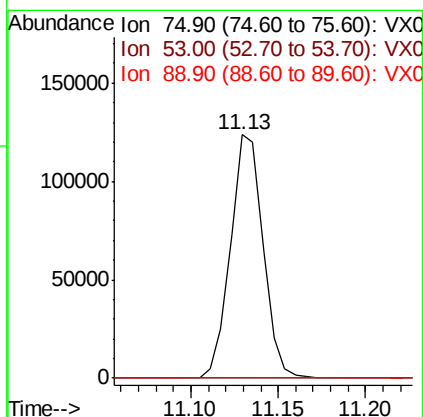
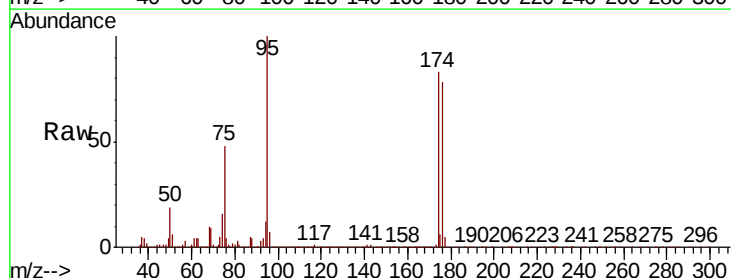
Tgt Ion: 75 Resp: 159748

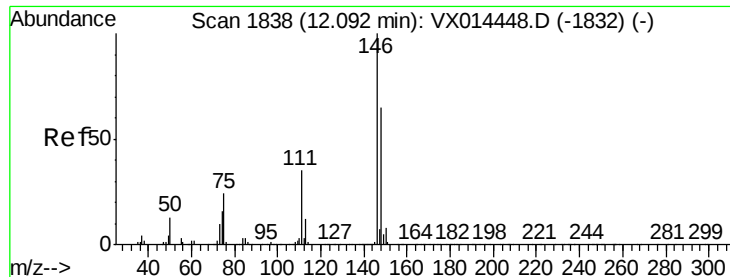
Ion Ratio Lower Upper

75 100

53 0.1 74.8 112.2#

89 0.1 36.3 54.5#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.07 min Scan# 1835

Delta R.T. -0.02 min

Lab File: VX014481.D

Acq: 08 Jan 2020 19:03

Instrument :

MSVOA_X

ClientSampleId :

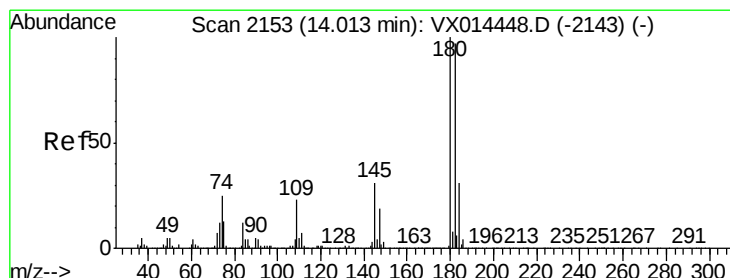
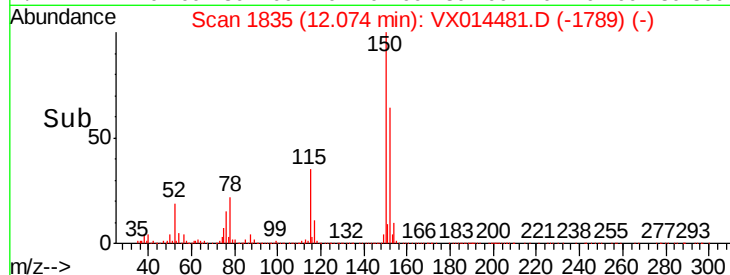
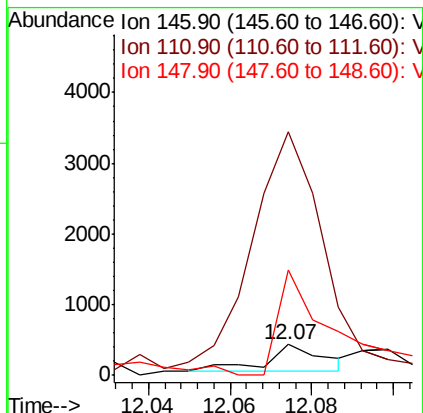
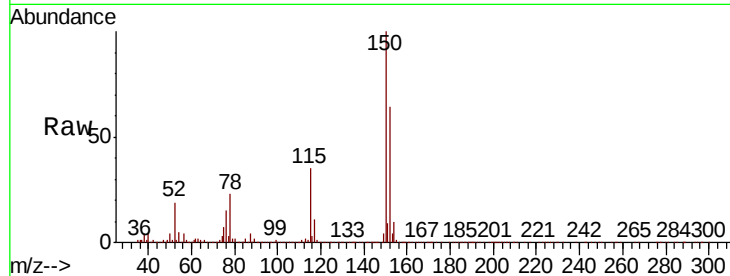
Tot Ion:146 Resp: 372

Ion Ratio Lower Upper

146 100

111 1222.3 18.1 54.1#

148 434.1 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: VX014481.D

Acq: 08 Jan 2020 19:03

Tgt Ion:180 Resp: 389

Ion Ratio Lower Upper

180 100

182 53.2 47.9 143.6

145 57.6 14.8 44.3#

