

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011720\
 Data File : VX014658.D
 Acq On : 17 Jan 2020 16:31
 Operator : JC/SP
 Sample : L1162-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 18 05:09:14 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	444518	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	686437	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	623761	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	282113	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	251895	50.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.52%	
35) Dibromofluoromethane	5.49	113	214842	51.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.40%	
50) Toluene-d8	8.71	98	815028	50.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.08%	
62) 4-Bromofluorobenzene	11.13	95	276314	46.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.36%	

Target Compounds

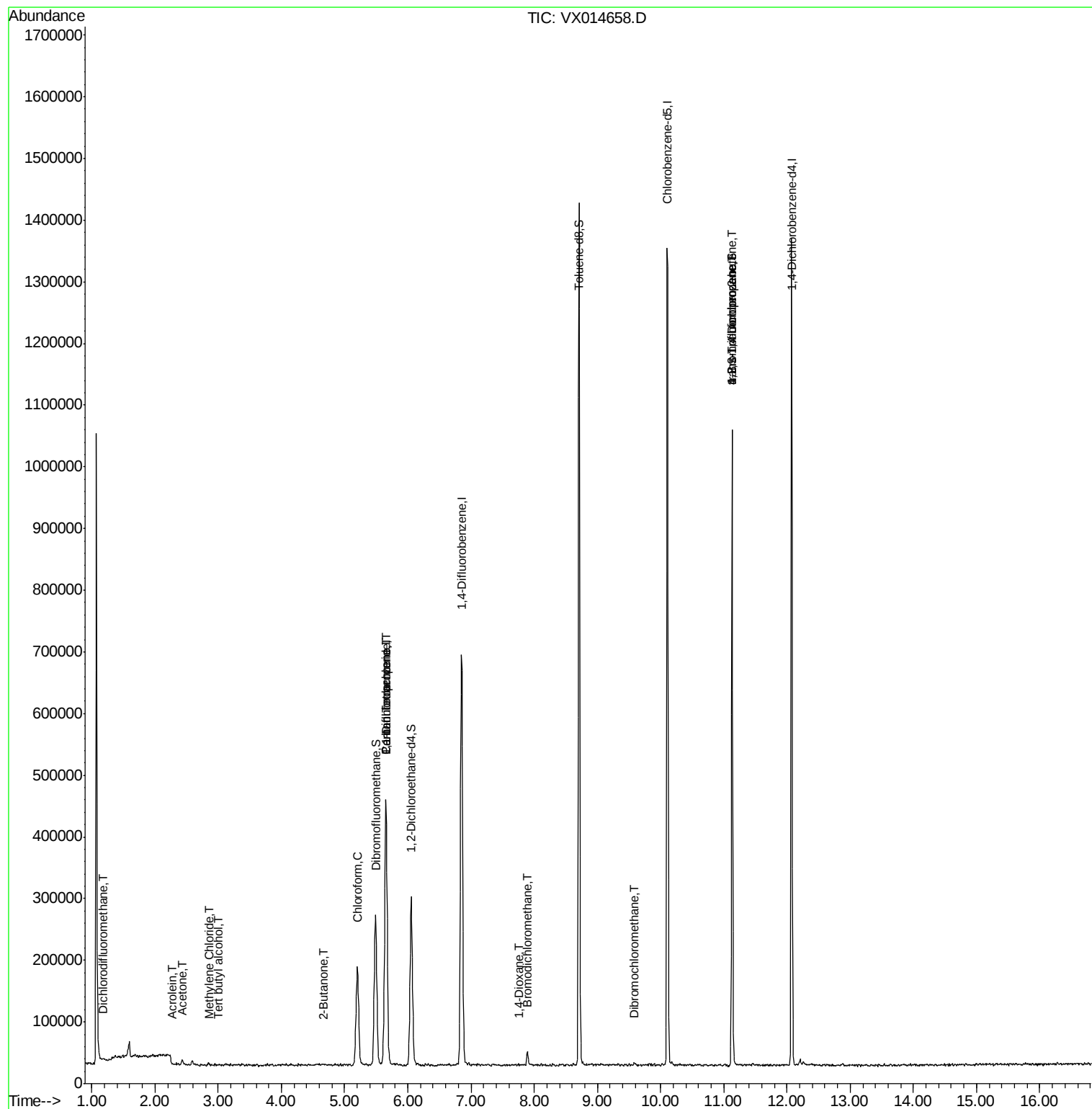
					Qvalue	
2) Dichlorodifluoromethane	1.19	85	439	0.332	ug/l #	34
6) Chloroethane	1.73	64	950	Below Cal	#	45
11) Tert butyl alcohol	3.01	59	240	0.232	ug/l #	1
13) Acrolein	2.28	56	548	0.660	ug/l #	48
16) Acetone	2.43	43	11208	0.331	ug/l	100
20) Methylene Chloride	2.86	84	2017	0.404	ug/l #	69
25) 2-Butanone	4.67	43	1391	0.375	ug/l #	49
30) Chloroform	5.20	83	185759	23.459	ug/l	93
36) 1,1-Dichloropropene	5.65	75	29575	4.582	ug/l #	51
38) Carbon Tetrachloride	5.65	117	37724	6.350	ug/l #	17
47) Bromodichloromethane	7.89	83	14422	2.325	ug/l	99
49) 1,4-Dioxane	7.75	88	411	3.575	ug/l #	58
60) Dibromochloromethane	9.58	129	1095	0.221	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	134857	23.104	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	134857	61.082	ug/l #	12
88) 1,4-Dichlorobenzene	12.06	146	259	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	13.63	180	390	Below Cal	#	92
96) 1,2,3-Trichlorobenzene	14.19	180	250	Below Cal		77

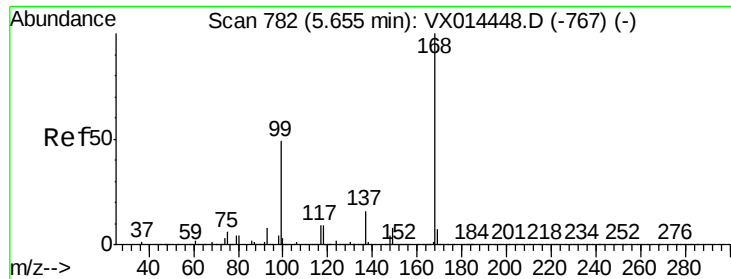
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX014658.D

Acq: 17 Jan 2020 16:31

Instrument :

MSVOA_X

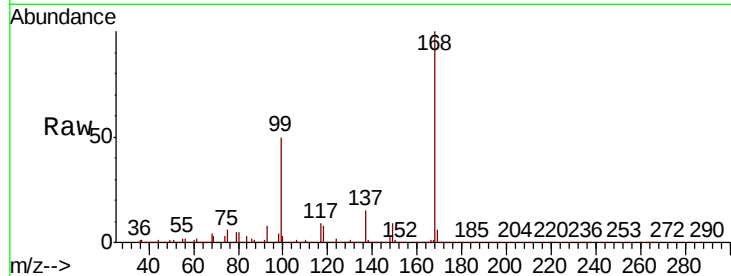
ClientSampleId :

Tot Ion:168 Resp: 444518

Ion Ratio Lower Upper

168 100

99 49.4 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

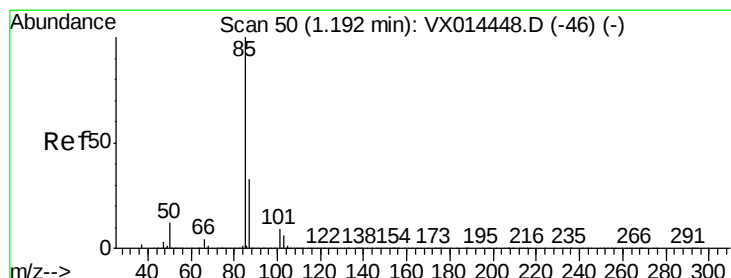
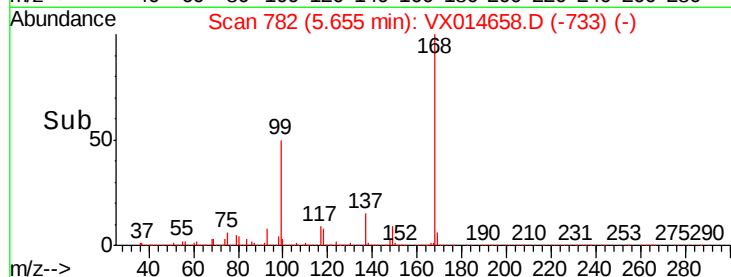
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.332 ug/l

RT: 1.19 min Scan# 49

Delta R.T. -0.01 min

Lab File: VX014658.D

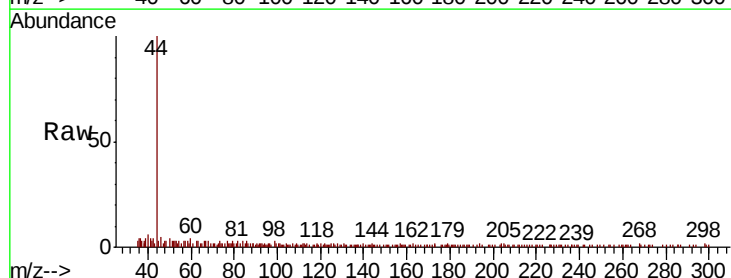
Acq: 17 Jan 2020 16:31

Tgt Ion: 85 Resp: 439

Ion Ratio Lower Upper

85 100

87 70.2 16.5 49.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

400

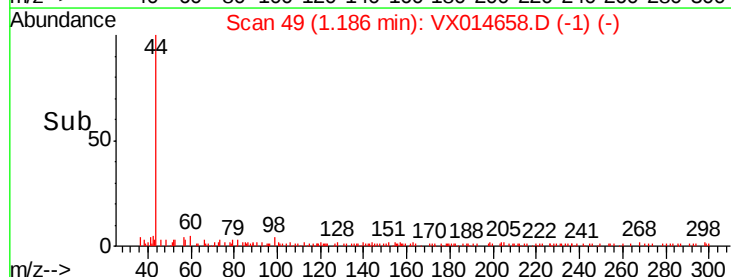
300

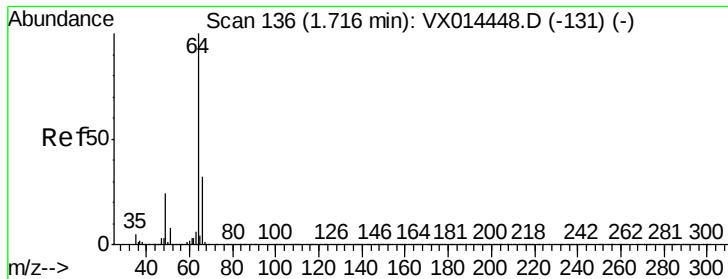
200

100

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 138

Delta R.T. 0.01 min

Lab File: VX014658.D

Acq: 17 Jan 2020 16:31

Instrument :

MSVOA_X

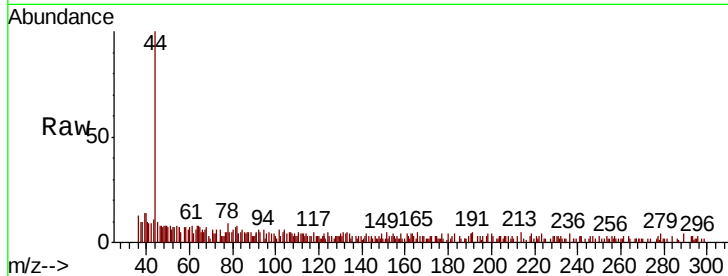
ClientSampleId :

Tot Ion: 64 Resp: 950

Ion Ratio Lower Upper

64 100

66 62.1 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.73

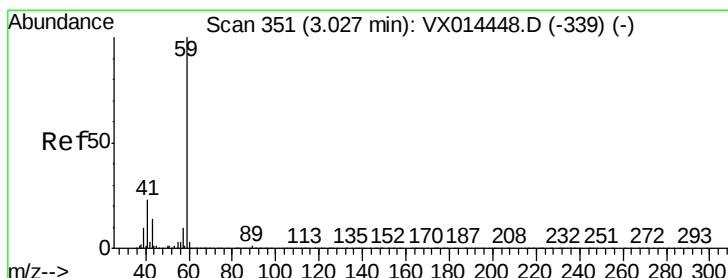
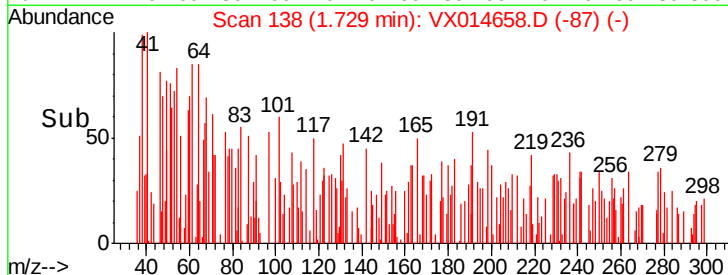
600

400

200

0

Time-->



#11

Tert butyl alcohol

Concen: 0.232 ug/l

RT: 3.01 min Scan# 349

Delta R.T. -0.01 min

Lab File: VX014658.D

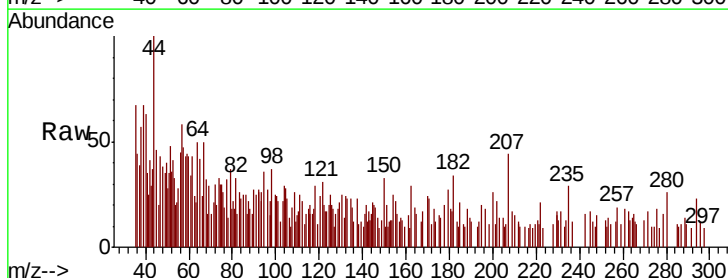
Acq: 17 Jan 2020 16:31

Tgt Ion: 59 Resp: 240

Ion Ratio Lower Upper

59 100

57 387.5 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

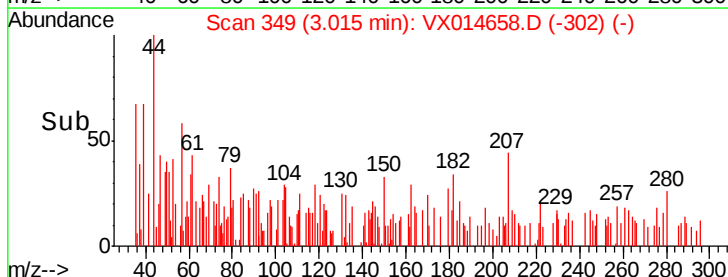
600

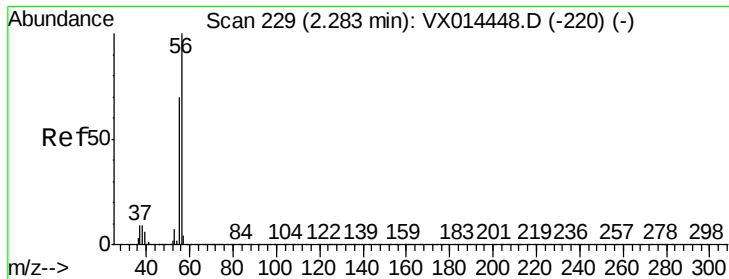
400

200

0

Time-->





#13

Acrolein

Concen: 0.660 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX014658.D

Acq: 17 Jan 2020 16:31

Instrument :

MSVOA_X

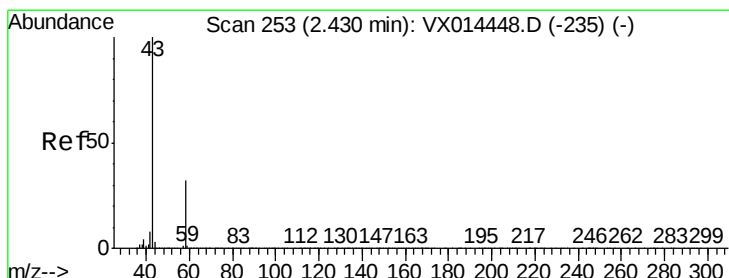
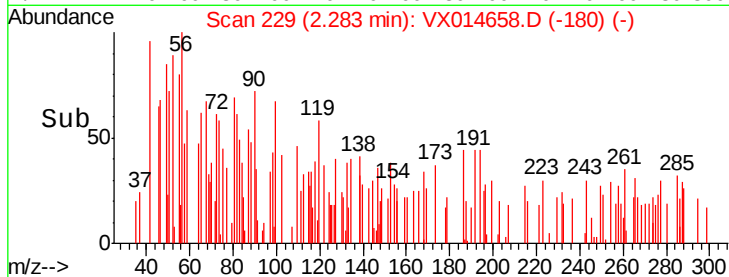
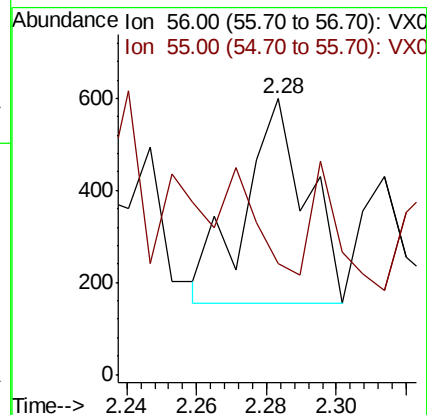
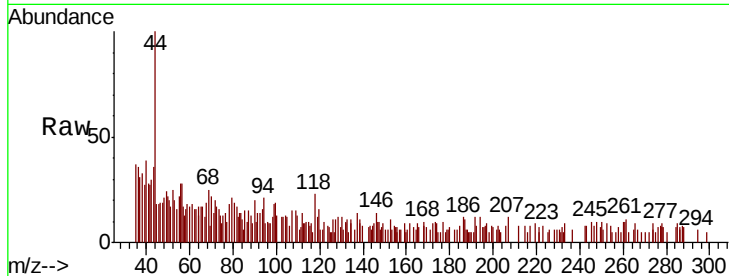
ClientSampled :

Tot Ion: 56 Resp: 548

Ion Ratio Lower Upper

56 100

55 26.8 55.0 82.6#



#16

Acetone

Concen: 0.331 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014658.D

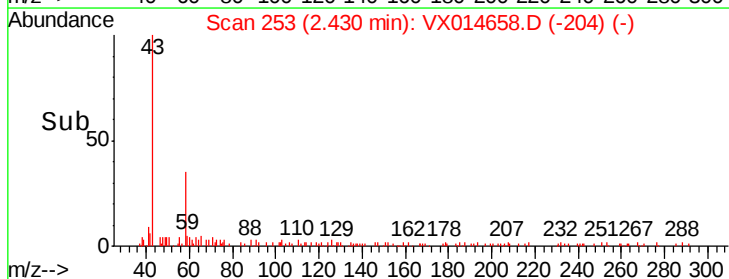
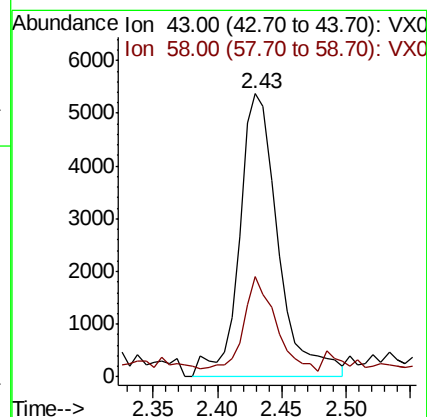
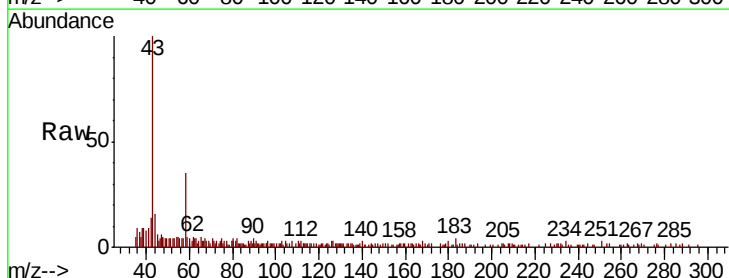
Acq: 17 Jan 2020 16:31

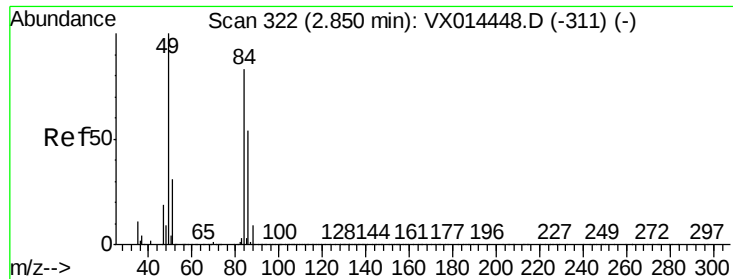
Tgt Ion: 43 Resp: 11208

Ion Ratio Lower Upper

43 100

58 31.6 25.4 38.0

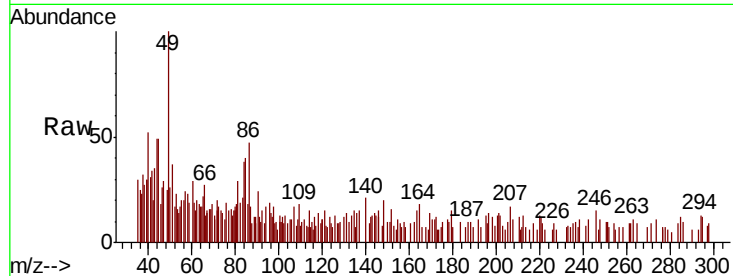




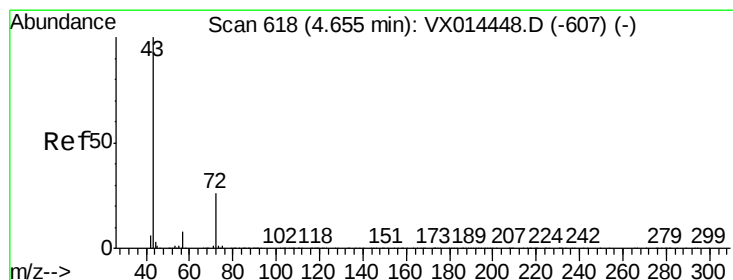
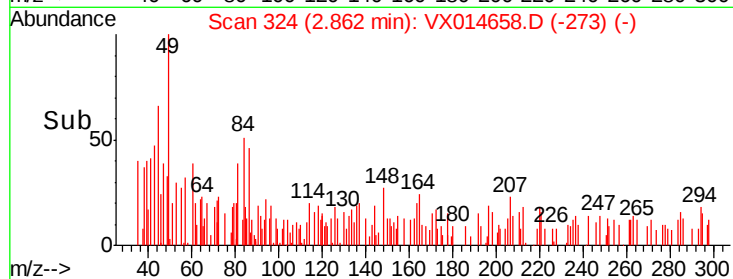
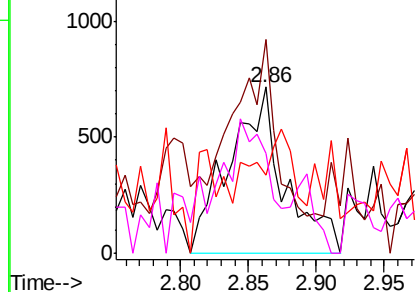
#20
Methvlene Chloride
Concen: 0.404 ug/l
RT: 2.86 min Scan# 324
Delta R.T. 0.01 min
Lab File: VX014658.D
Acq: 17 Jan 2020 16:31

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	84	Resp:	2017
Ion	Ratio	Lower	Upper
84	100		
49	74.3	95.8	143.8#
51	11.5	30.2	45.4#
86	59.9	51.8	77.6

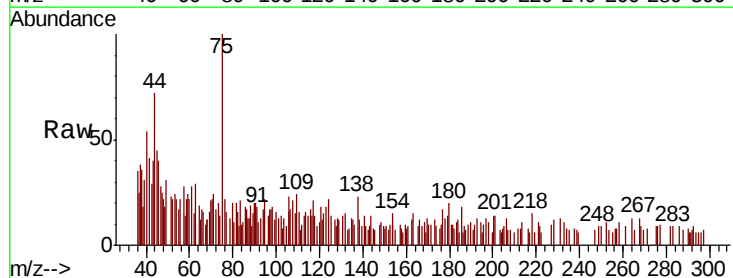


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

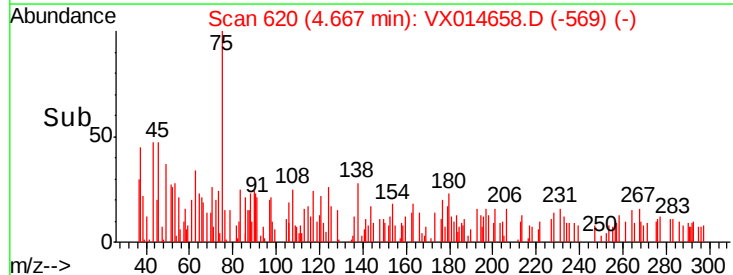
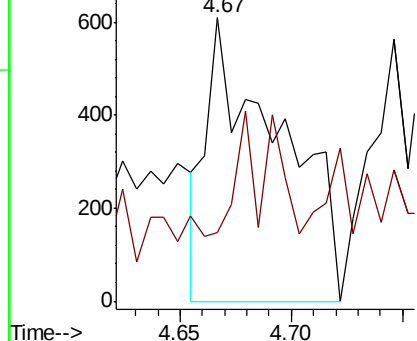


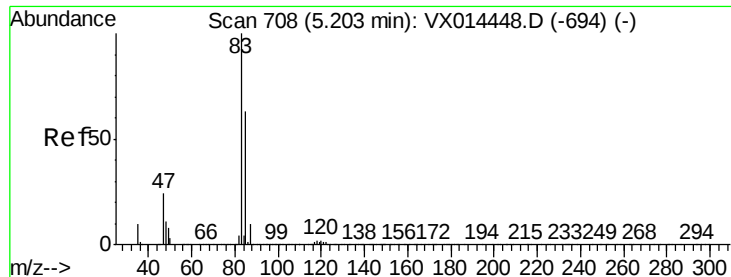
#25
2-Butanone
Concen: 0.375 ug/l
RT: 4.67 min Scan# 620
Delta R.T. 0.01 min
Lab File: VX014658.D
Acq: 17 Jan 2020 16:31

Tgt Ion:	43	Resp:	1391
Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.6	31.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0

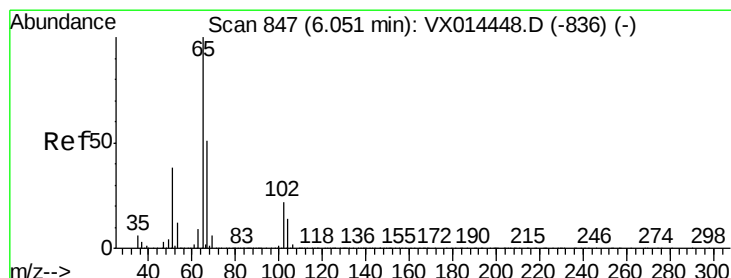
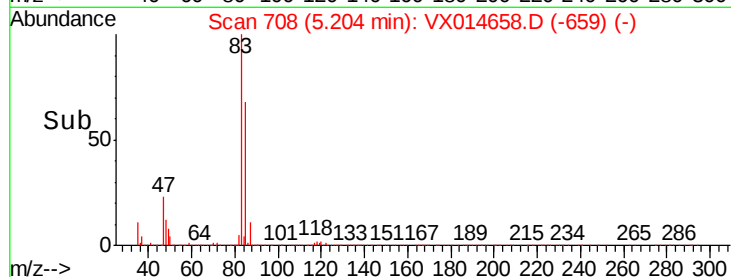
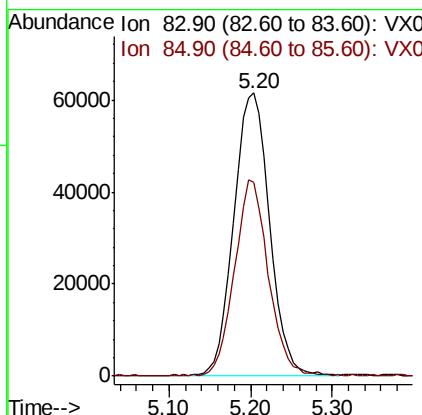
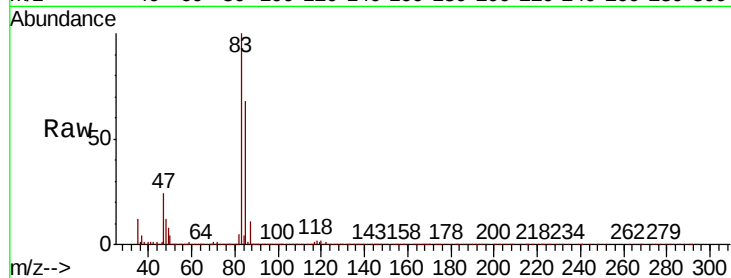




#30
Chloroform
Concen: 23.459 ug/l
RT: 5.20 min Scan# 708
Delta R.T. 0.00 min
Lab File: VX014658.D
Acq: 17 Jan 2020 16:31

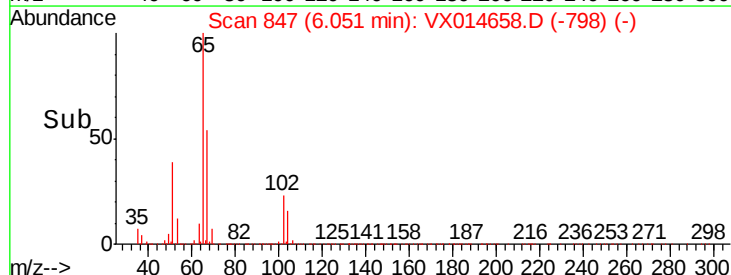
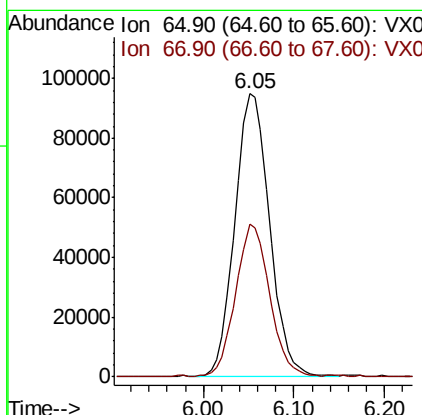
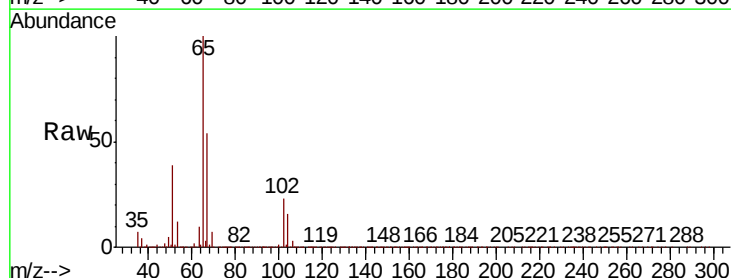
Instrument :
MSVOA_X
ClientSampleId :

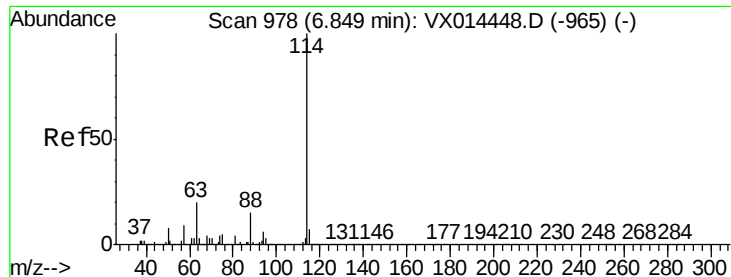
Tot Ion: 83 Resp: 185759
Ion Ratio Lower Upper
83 100
85 68.3 50.6 75.8



#33
1,2-Dichloroethane-d4
Concen: 50.761 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014658.D
Acq: 17 Jan 2020 16:31

Tgt Ion: 65 Resp: 251895
Ion Ratio Lower Upper
65 100
67 52.6 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: VX014658.D

Acq: 17 Jan 2020 16:31

Instrument :

MSVOA_X

ClientSampleId :

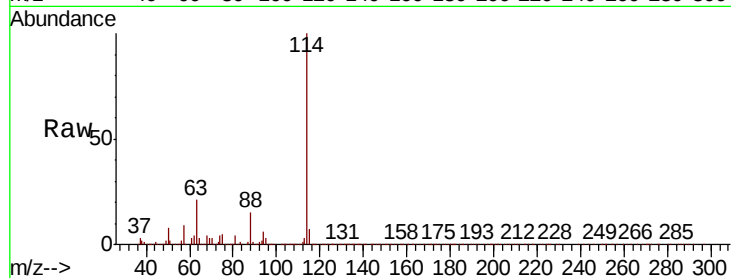
Tot Ion:114 Resp: 686437

Ion Ratio Lower Upper

114 100

63 20.9 0.0 39.6

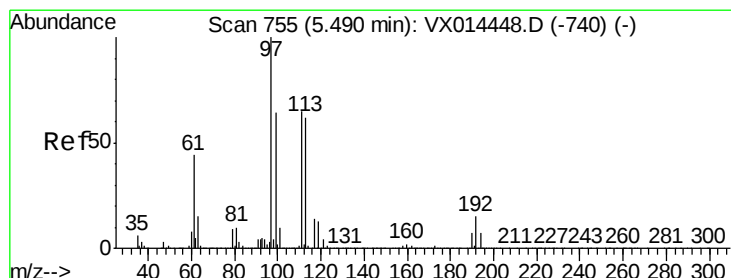
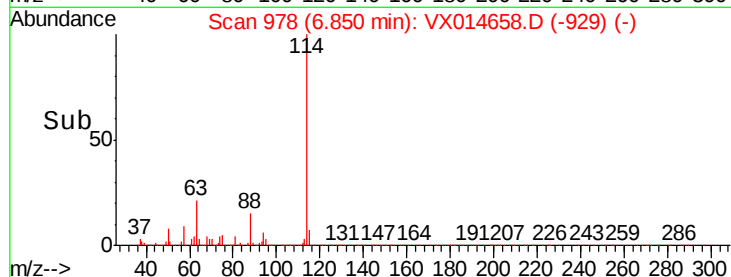
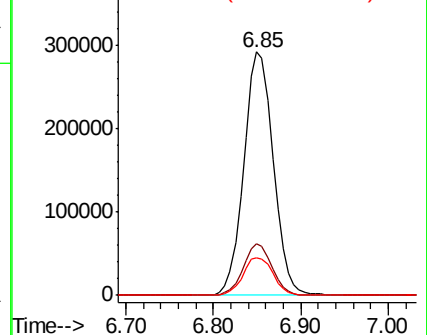
88 15.3 0.0 30.8



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: 51.703 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014658.D

Acq: 17 Jan 2020 16:31

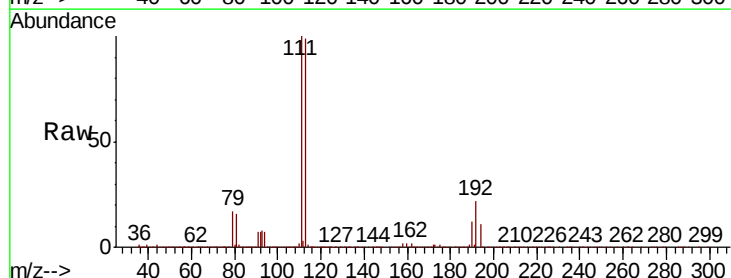
Tgt Ion:113 Resp: 214842

Ion Ratio Lower Upper

113 100

111 100.9 81.5 122.3

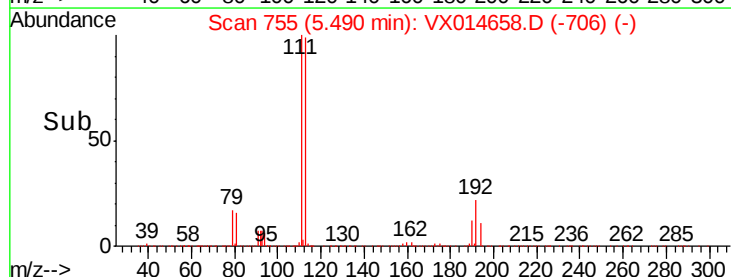
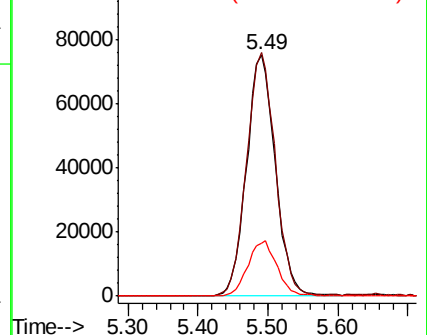
192 22.9 19.2 28.8

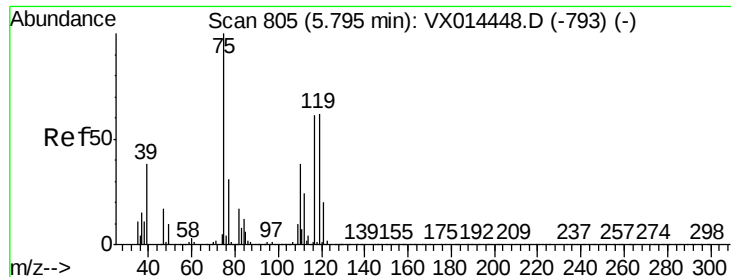


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.582 ug/l

RT: 5.65 min Scan# 781

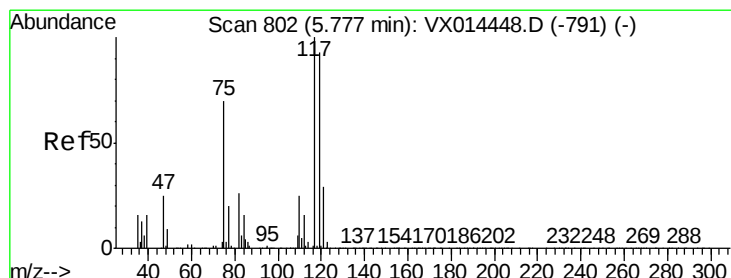
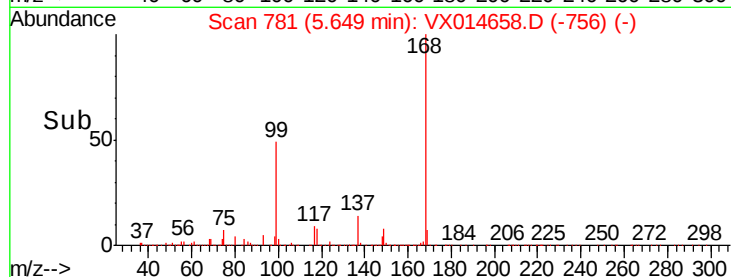
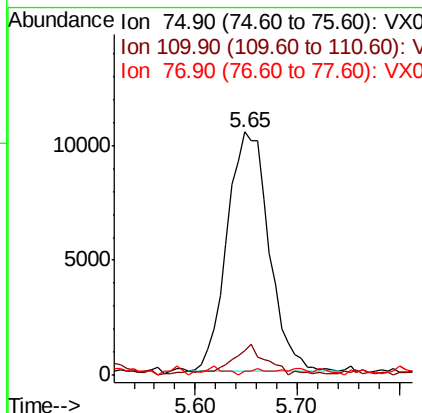
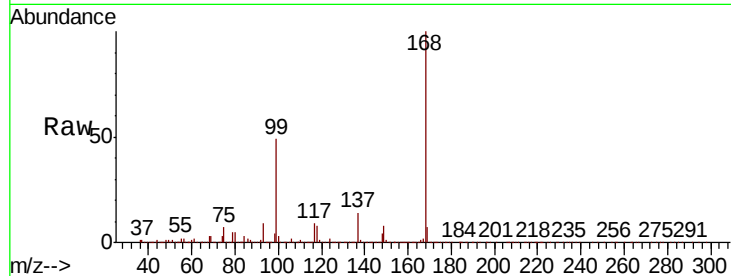
Delta R.T. -0.15 min

Lab File: VX014658.D

Acq: 17 Jan 2020 16:31

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	75	Resp:	29575
Ion	Ratio	Lower	Upper
75	100		
110	10.2	18.6	55.8#
77	1.2	24.5	36.7#



#38

Carbon Tetrachloride

Concen: 6.350 ug/l

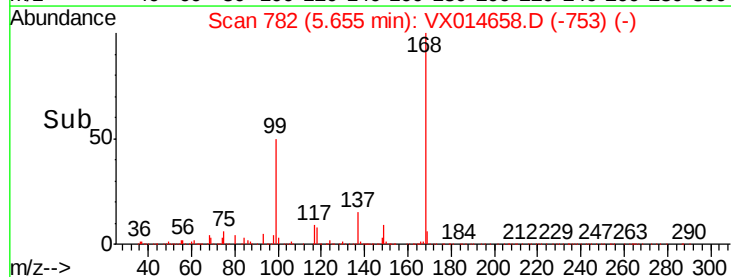
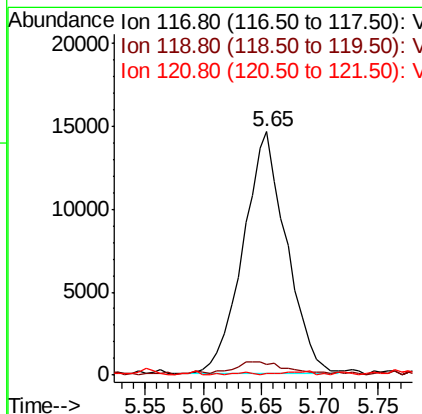
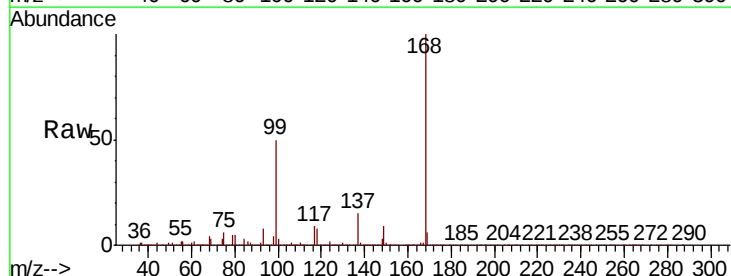
RT: 5.65 min Scan# 782

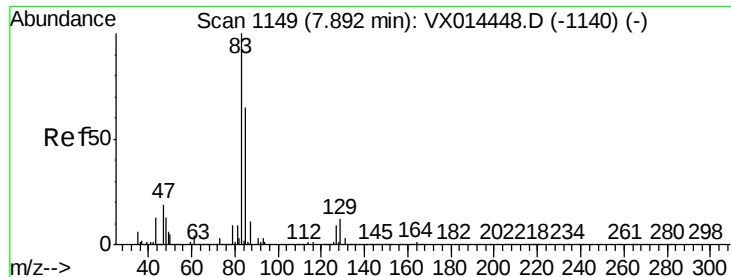
Delta R.T. -0.12 min

Lab File: VX014658.D

Acq: 17 Jan 2020 16:31

Tgt Ion:	117	Resp:	37724
Ion	Ratio	Lower	Upper
117	100		
119	3.8	73.8	110.8#
121	0.0	23.4	35.0#





#47

Bromodichloromethane

Concen: 2.325 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. 0.00 min

Lab File: VX014658.D

Acq: 17 Jan 2020 16:31

Instrument :

MSVOA_X

ClientSampled :

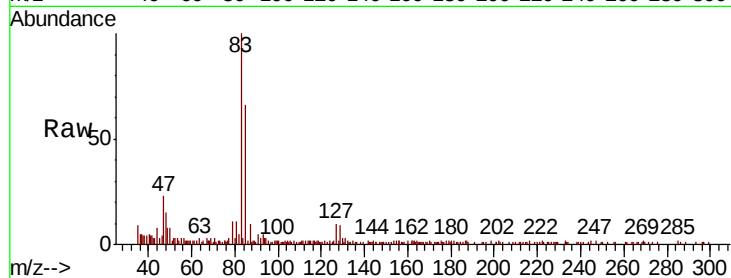
Tot Ion: 83 Resp: 14422

Ion Ratio Lower Upper

83 100

85 65.1 51.7 77.5

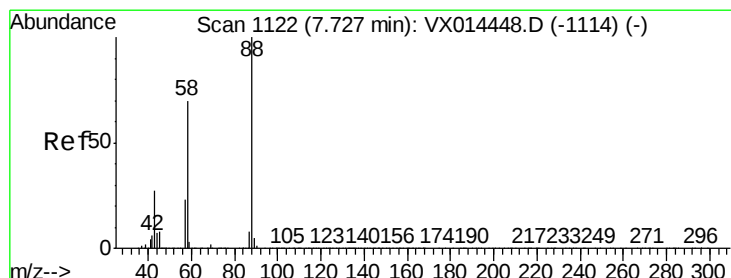
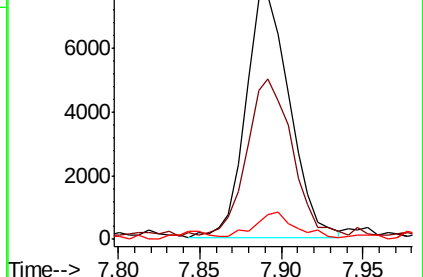
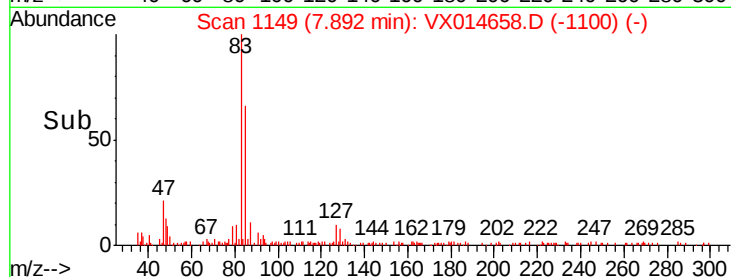
127 9.6 7.1 10.7



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V



#49

1,4-Dioxane

Concen: 3.575 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.02 min

Lab File: VX014658.D

Acq: 17 Jan 2020 16:31

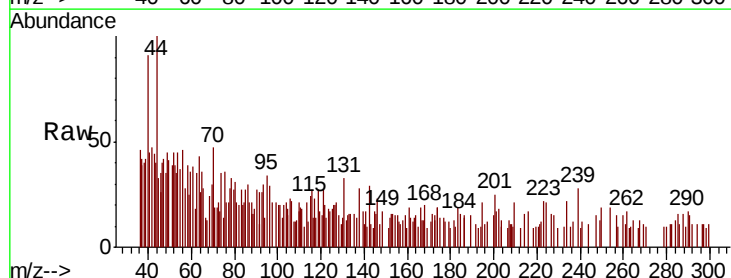
Tgt Ion: 88 Resp: 411

Ion Ratio Lower Upper

88 100

43 91.2 27.4 41.0#

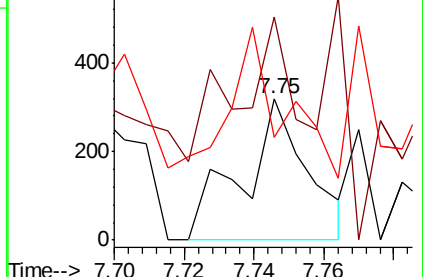
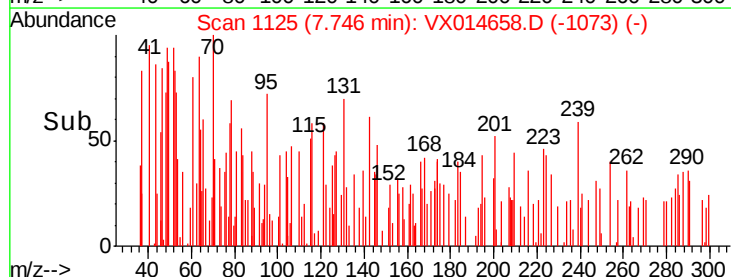
58 83.7 57.1 85.7

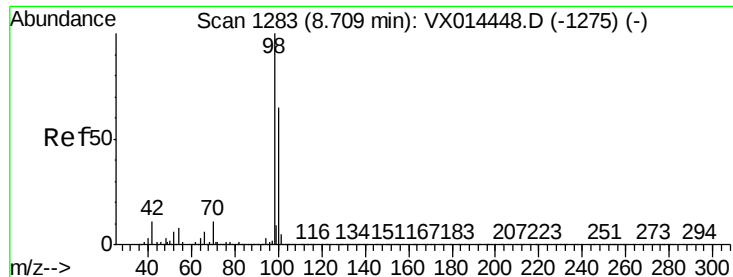


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.543 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014658.D

Acq: 17 Jan 2020 16:31

Instrument :

MSVOA_X

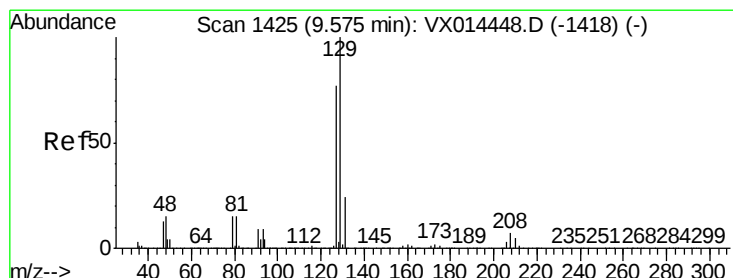
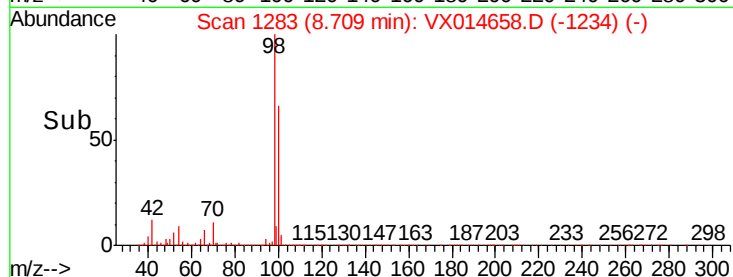
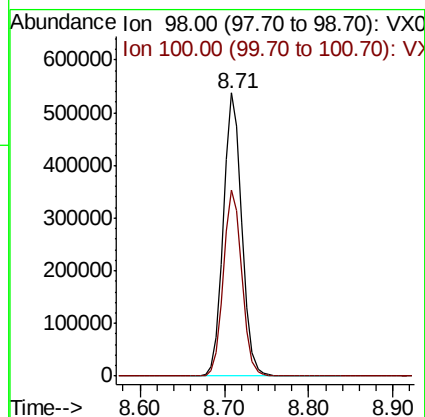
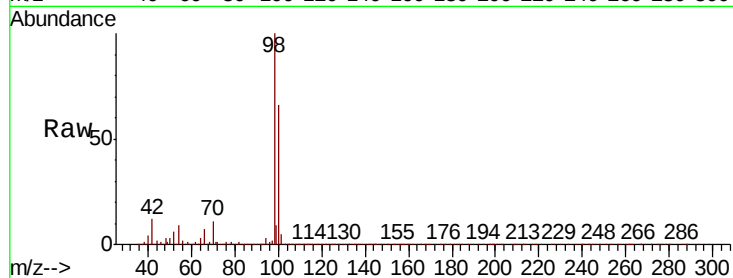
ClientSampleId :

Tot Ion: 98 Resp: 815028

Ion Ratio Lower Upper

98 100

100 65.9 53.2 79.8



#60

Dibromochloromethane

Concen: 0.221 ug/l

RT: 9.58 min Scan# 1426

Delta R.T. 0.01 min

Lab File: VX014658.D

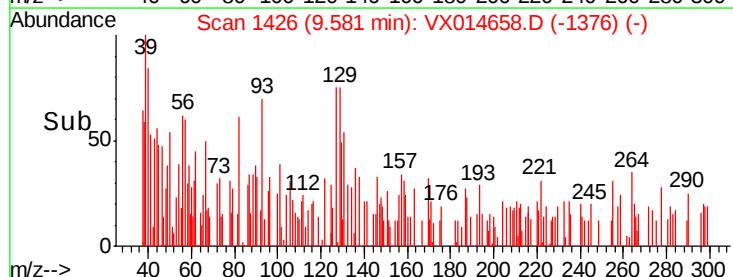
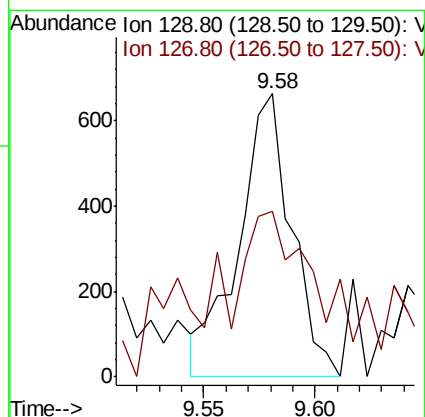
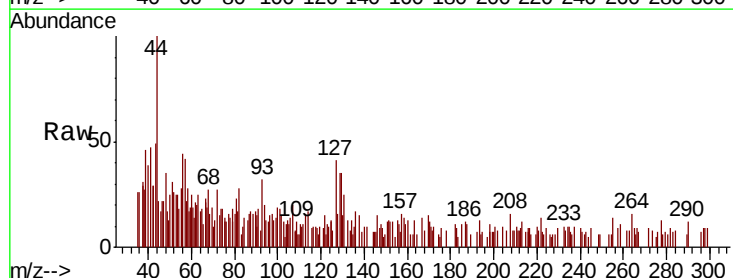
Acq: 17 Jan 2020 16:31

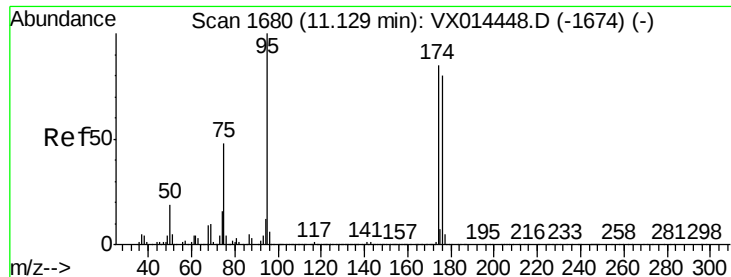
Tgt Ion: 129 Resp: 1095

Ion Ratio Lower Upper

129 100

127 73.9 38.6 116.0

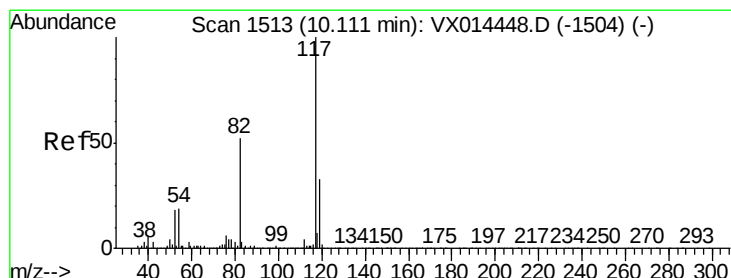
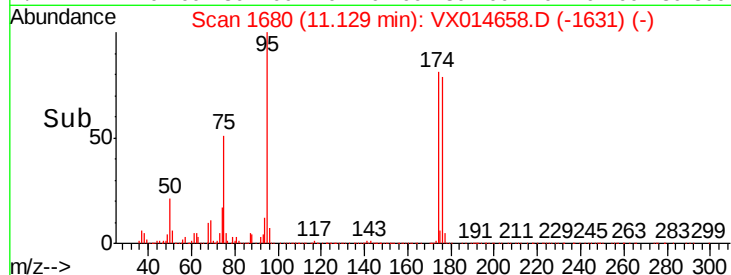
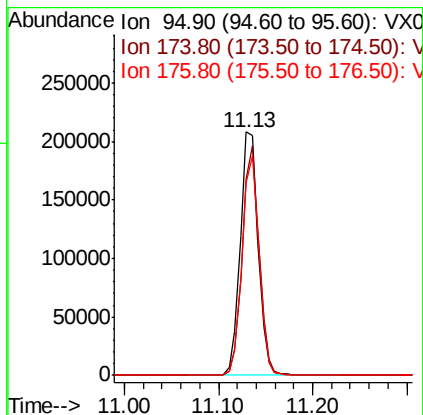
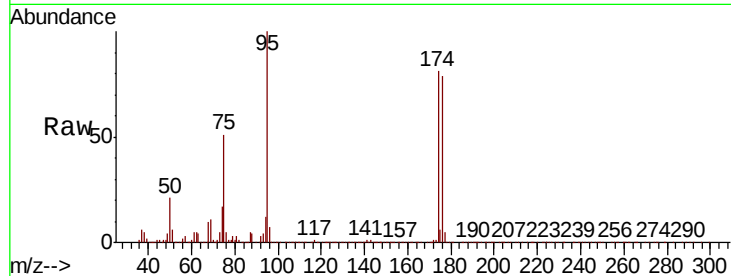




#62
4-Bromofluorobenzene
Concen: 46.676 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX014658.D
Acq: 17 Jan 2020 16:31

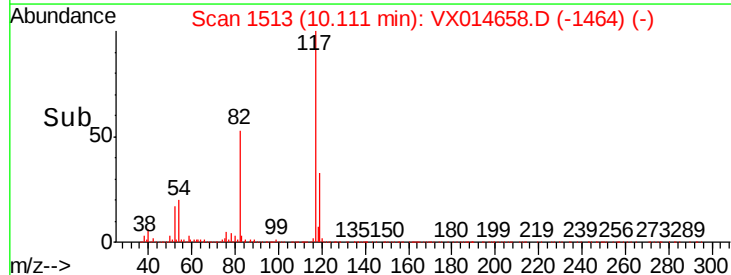
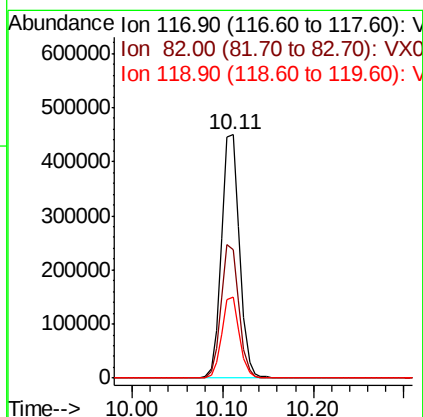
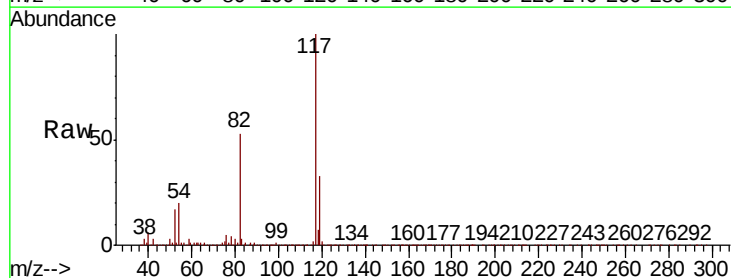
Instrument :
MSVOA_X
ClientSampled :

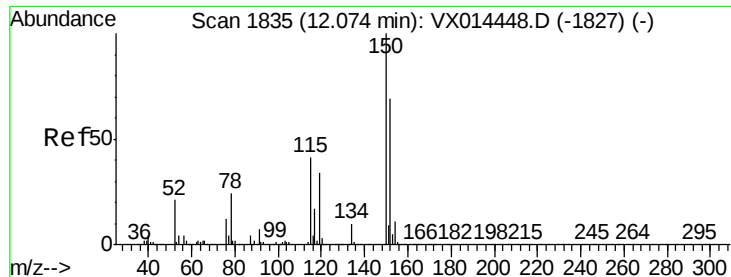
Tot Ion	Ratio	Lower	Upper
95	100		
174	88.6	0.0	180.8
176	85.9	0.0	172.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014658.D
Acq: 17 Jan 2020 16:31

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.0	41.8	62.6
119	33.3	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: VX014658.D

Acq: 17 Jan 2020 16:31

Instrument :

MSVOA_X

ClientSampled :

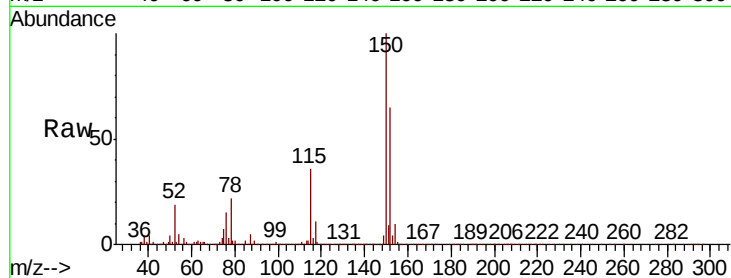
Tot Ion:152 Resp: 282113

Ion Ratio Lower Upper

152 100

115 56.0 39.5 118.3

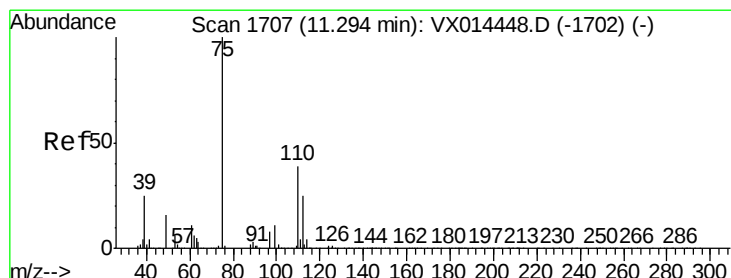
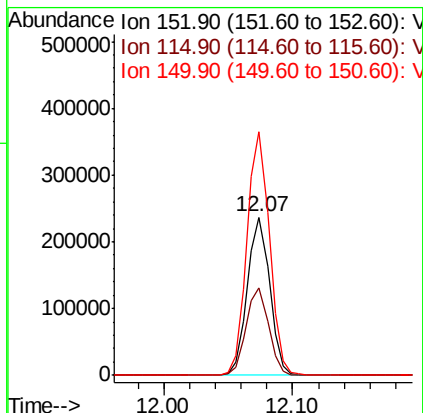
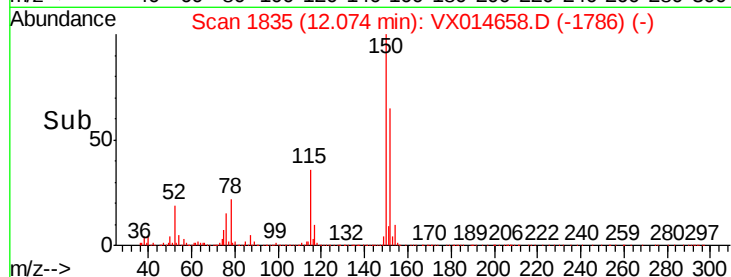
150 154.8 0.0 350.2



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



#76

1,2,3-Trichloropropane

Concen: 23.104 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014658.D

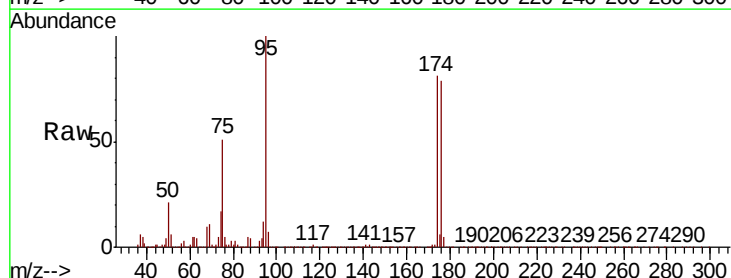
Acq: 17 Jan 2020 16:31

Tgt Ion: 75 Resp: 134857

Ion Ratio Lower Upper

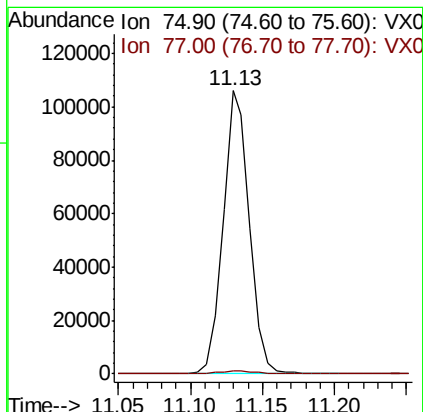
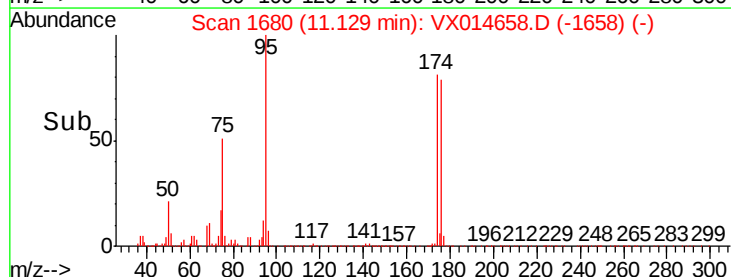
75 100

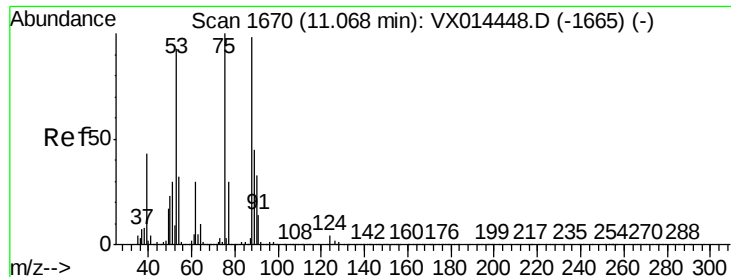
77 1.6 21.9 65.7#



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: 61.082 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014658.D

Acq: 17 Jan 2020 16:31

Instrument :

MSVOA_X

ClientSampleId :

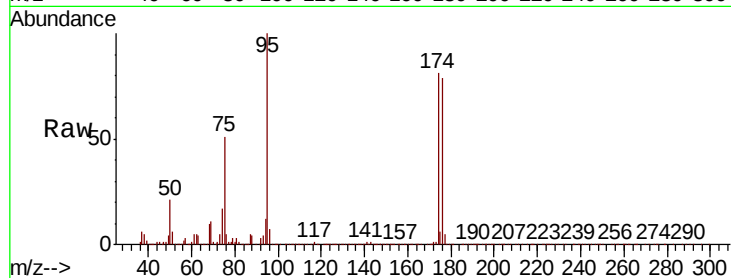
Tot Ion: 75 Resp: 134857

Ion Ratio Lower Upper

75 100

53 0.6 74.8 112.2#

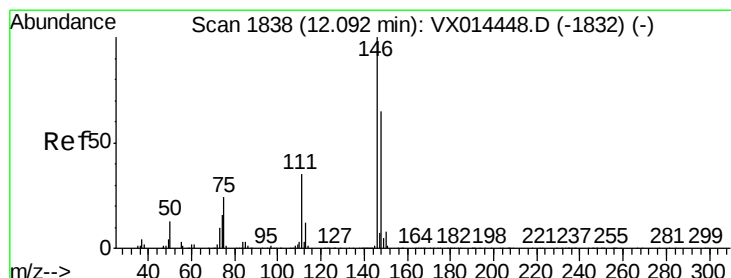
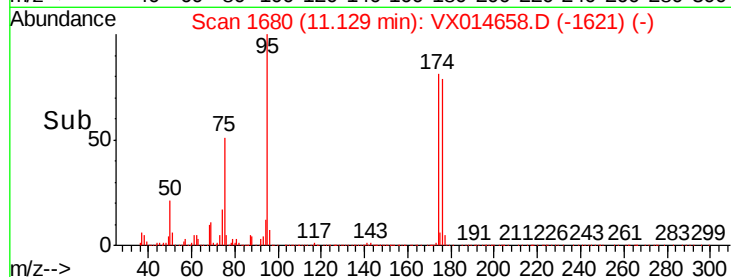
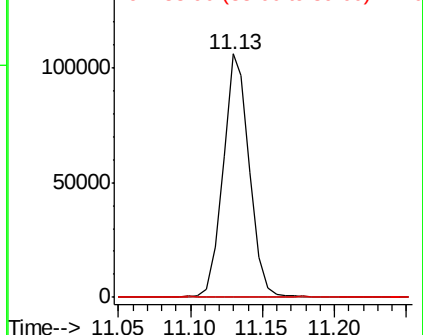
89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.06 min Scan# 1833

Delta R.T. -0.03 min

Lab File: VX014658.D

Acq: 17 Jan 2020 16:31

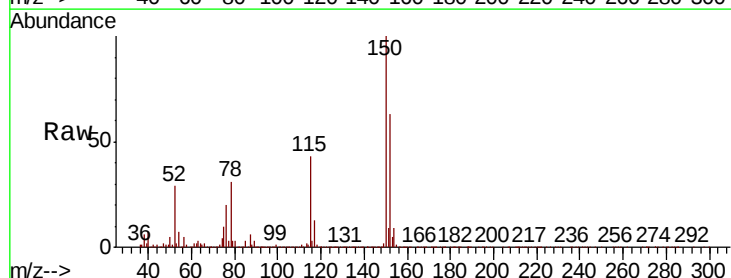
Tgt Ion: 146 Resp: 259

Ion Ratio Lower Upper

146 100

111 1384.6 18.1 54.1#

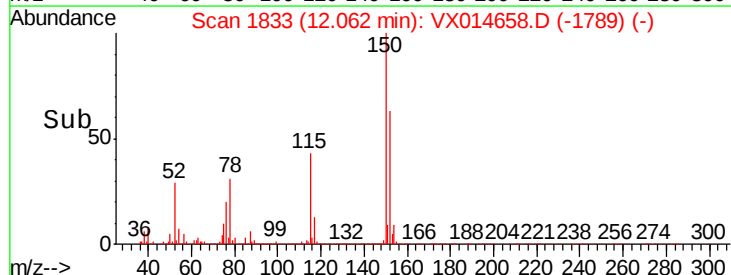
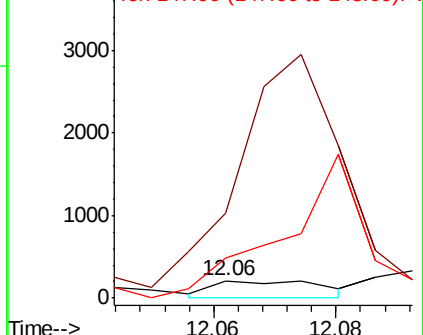
148 676.1 32.1 96.3#

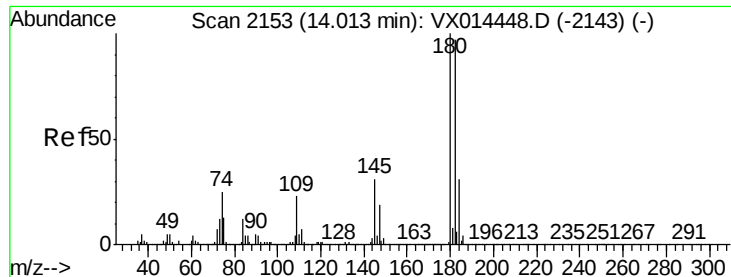


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

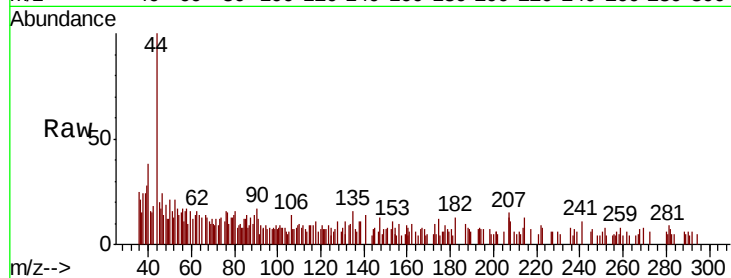




#96
 1,2,3-Trichlorobenzene
 Concen: Below Cal
 RT: 14.19 min Scan# 2182
 Delta R.T. 0.18 min
 Lab File: VX014658.D
 Acq: 17 Jan 2020 16:31

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	74.4	47.9	143.6
145	43.2	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

