

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX042020\
 Data File : VX015770.D
 Acq On : 20 Apr 2020 16:57
 Operator : JC/SP
 Sample : PB128337TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 21 07:58:16 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	1043092	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	1605740	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1550787	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	892992	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	628390	42.71	ug/l	0.00
Spiked Amount			Recovery	=	85.42%	
35) Dibromofluoromethane	5.47	113	501523	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
50) Toluene-d8	8.70	98	1925237	50.94	ug/l	0.00
Spiked Amount			Recovery	=	101.88%	
62) 4-Bromofluorobenzene	11.12	95	822321	53.54	ug/l	0.00
Spiked Amount			Recovery	=	107.08%	

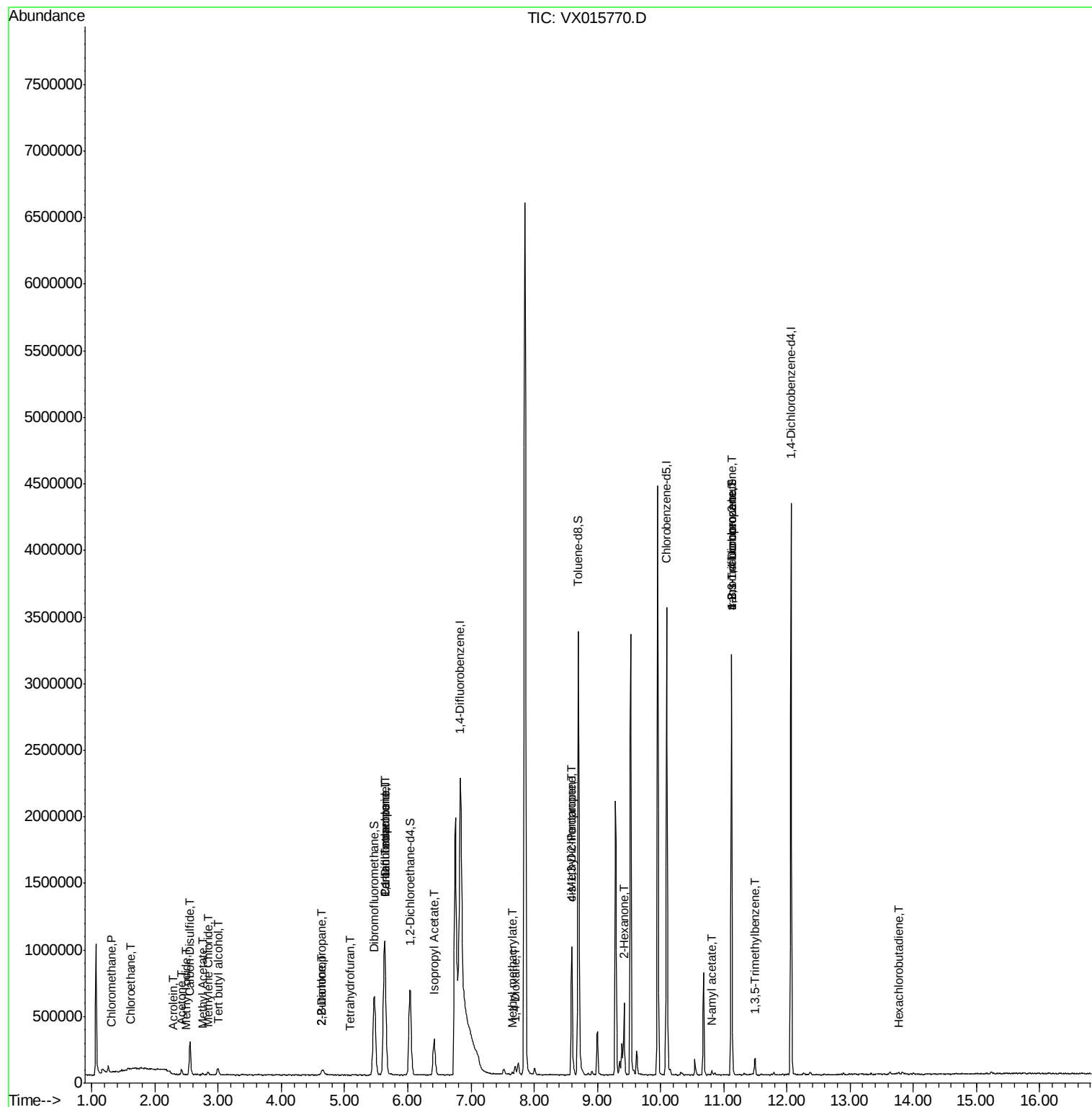
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	3188	0.272	ug/l #	3
5) Bromomethane	1.64	94	1525	Below Cal	#	49
6) Chloroethane	1.61	64	20957	3.144	ug/l #	53
10) Methyl Iodide	2.50	142	4176	0.330	ug/l #	89
11) Tert butyl alcohol	3.00	59	34083	9.679	ug/l #	88
13) Acrolein	2.29	56	968	0.483	ug/l #	80
16) Acetone	2.42	43	47317	7.486	ug/l	97
17) Carbon Disulfide	2.55	76	318253	10.594	ug/l	100
18) Methyl Acetate	2.75	43	17913	1.110	ug/l #	91
20) Methylene Chloride	2.84	84	10951	0.928	ug/l	91
25) 2-Butanone	4.64	43	12986	1.278	ug/l #	66
26) 2,2-Dichloropropane	4.64	77	3804	0.216	ug/l	81
29) Tetrahydrofuran	5.09	42	2694	0.412	ug/l #	65
36) 1,1-Dichloropropene	5.63	75	71050	4.802	ug/l #	54
38) Carbon Tetrachloride	5.63	117	96342	6.012	ug/l #	14
43) Isopropyl Acetate	6.42	43	398554	12.256	ug/l	100
48) Methyl methacrylate	7.65	41	21738	1.338	ug/l #	19
49) 1,4-Dioxane	7.70	88	317	1.046	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	373064	20.242	ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	154707	7.814	ug/l #	52
59) 2-Hexanone	9.42	43	364423	26.191	ug/l #	27
74) N-amyl acetate	10.81	43	19485	0.599	ug/l #	55
76) 1,2,3-Trichloropropane	11.12	75	406691	22.146	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.50	105	56165	1.124	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.12	75	406691	53.140	ug/l #	10
94) Hexachlorobutadiene	13.77	225	2951	0.287	ug/l	96

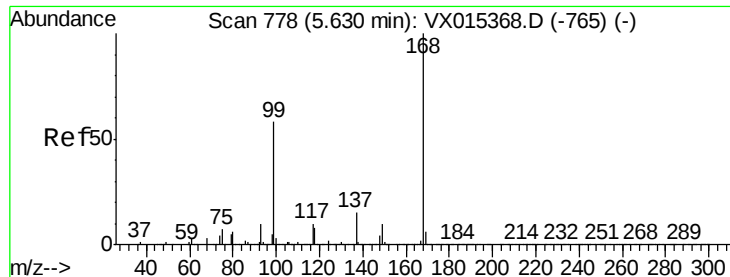
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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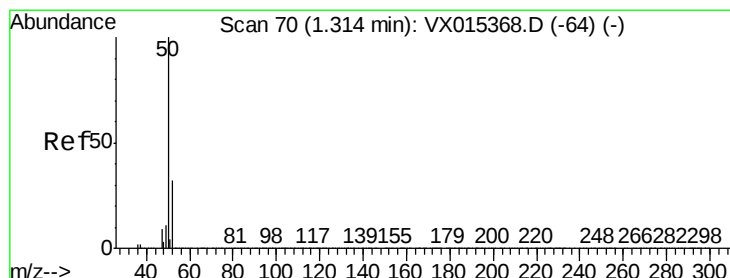
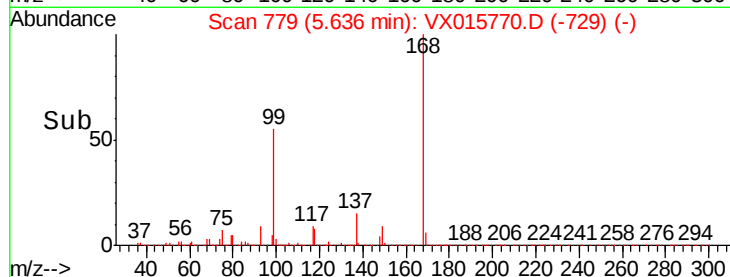
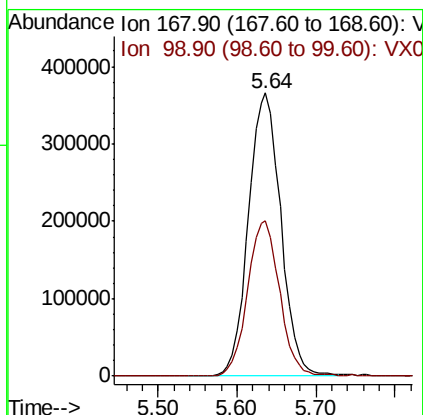
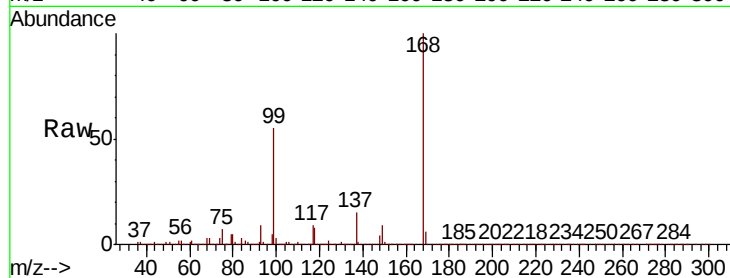


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. 0.01 min
 Lab File: VX015770.D
 Acq: 20 Apr 2020 16:57

Instrument :
 MSVOA_X
 ClientSampleId :

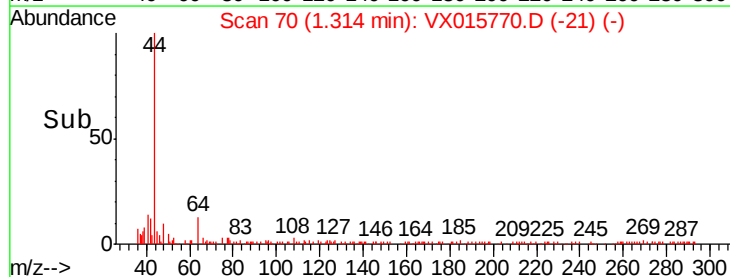
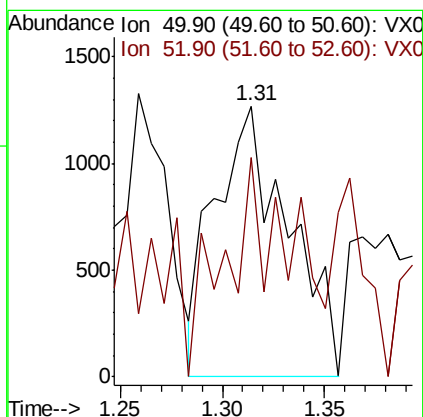
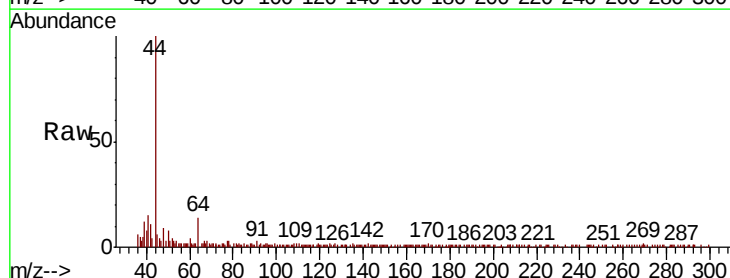
Tot Ion:168 Resp: 1043092
 Ion Ratio Lower Upper
 168 100
 99 54.9 46.4 69.6

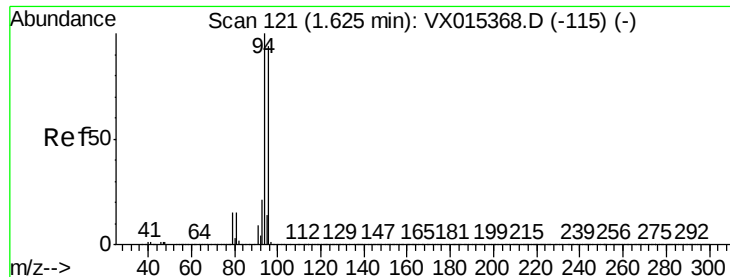


#3

Chloromethane
 Concen: 0.272 ug/l
 RT: 1.31 min Scan# 70
 Delta R.T. 0.00 min
 Lab File: VX015770.D
 Acq: 20 Apr 2020 16:57

Tgt Ion: 50 Resp: 3188
 Ion Ratio Lower Upper
 50 100
 52 85.5 25.3 37.9#





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX015770.D

Acq: 20 Apr 2020 16:57

Instrument :

MSVOA_X

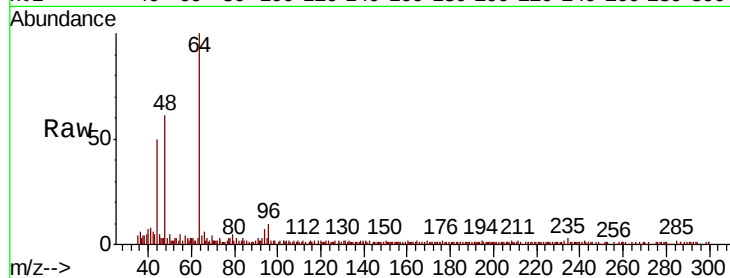
ClientSampled :

Tot Ion: 94 Resp: 1525

Ion Ratio Lower Upper

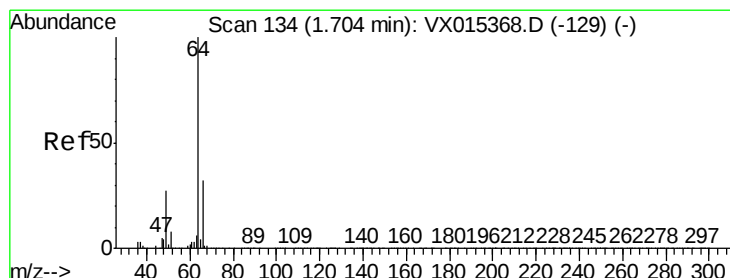
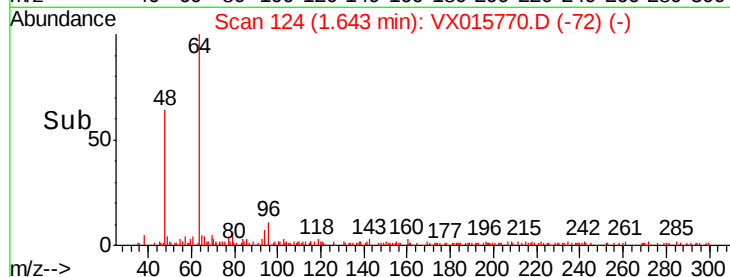
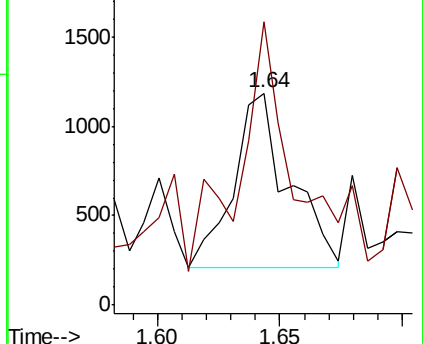
94 100

96 143.0 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 3.144 ug/l

RT: 1.61 min Scan# 119

Delta R.T. -0.09 min

Lab File: VX015770.D

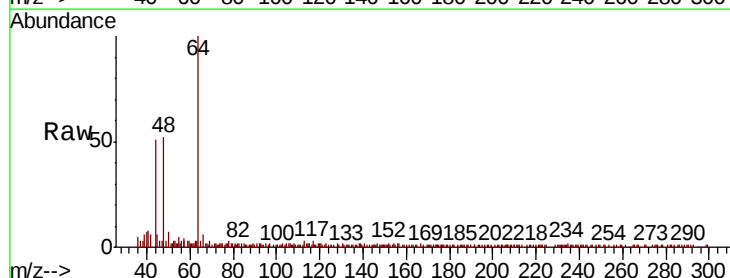
Acq: 20 Apr 2020 16:57

Tgt Ion: 64 Resp: 20957

Ion Ratio Lower Upper

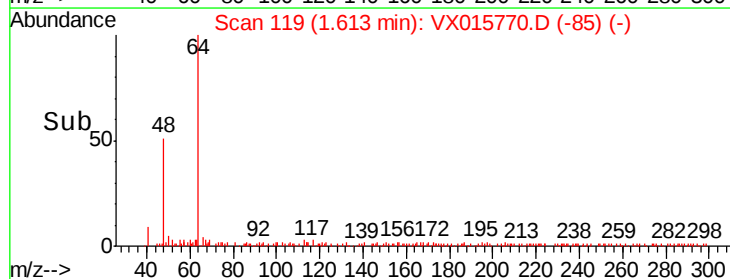
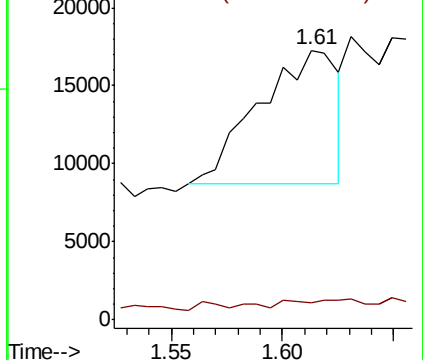
64 100

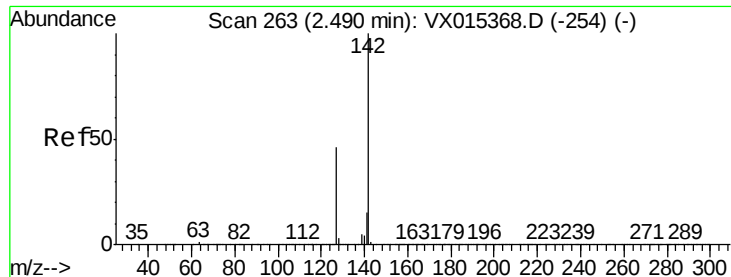
66 5.8 25.4 38.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

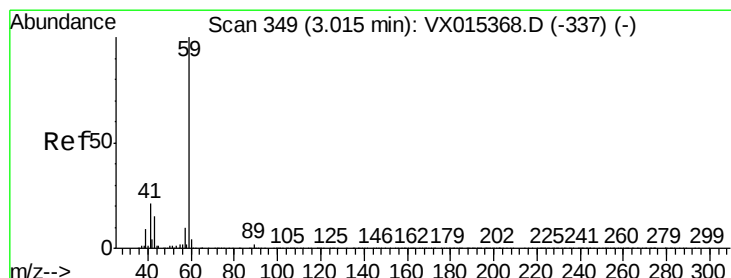
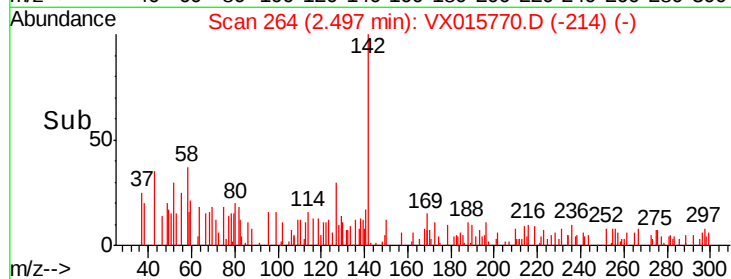
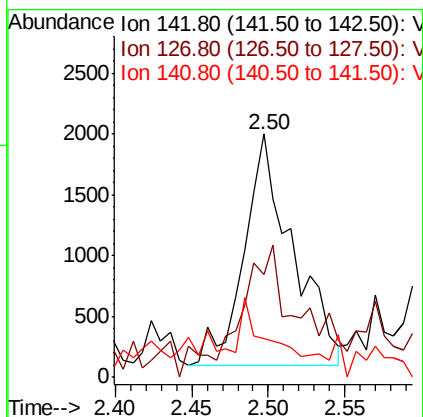
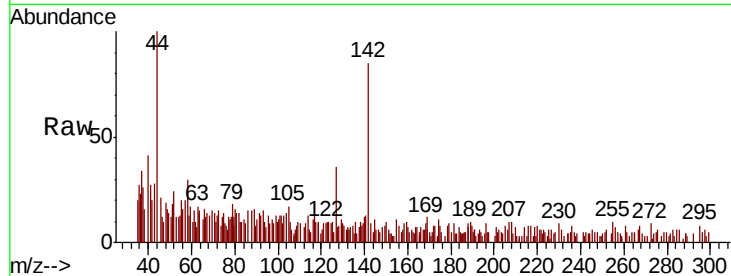




#10
Methvl Iodide
Concen: 0.330 ug/l
RT: 2.50 min Scan# 264
Delta R.T. 0.01 min
Lab File: VX015770.D
Acq: 20 Apr 2020 16:57

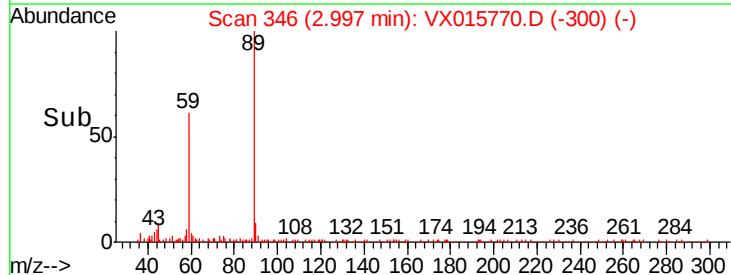
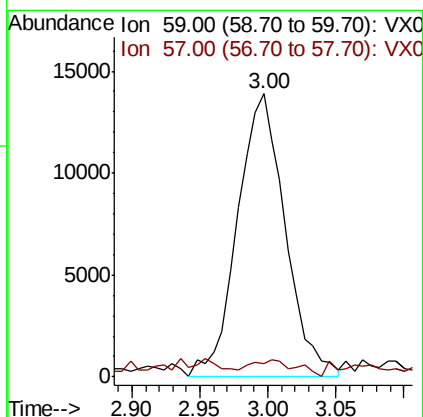
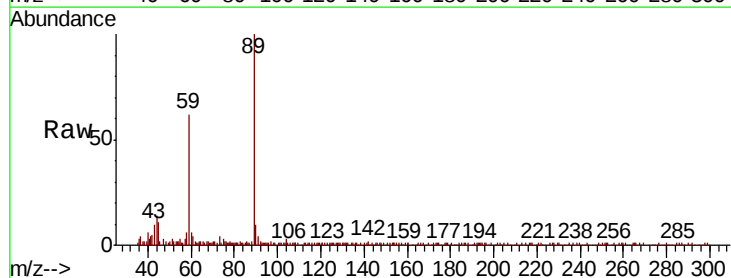
Instrument :
MSVOA_X
ClientSampled :

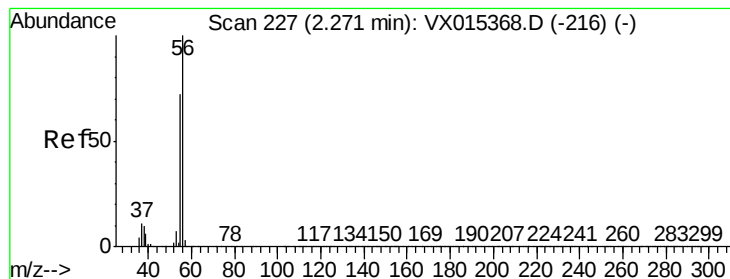
Tot Ion:142 Resp: 4176
Ion Ratio Lower Upper
142 100
127 50.4 35.9 53.9
141 21.8 11.6 17.4#



#11
Tert butyl alcohol
Concen: 9.679 ug/l
RT: 3.00 min Scan# 346
Delta R.T. -0.02 min
Lab File: VX015770.D
Acq: 20 Apr 2020 16:57

Tgt Ion: 59 Resp: 34083
Ion Ratio Lower Upper
59 100
57 5.8 8.1 12.1#





#13

Acrolein

Concen: 0.483 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.02 min

Lab File: VX015770.D

Acq: 20 Apr 2020 16:57

Instrument :

MSVOA_X

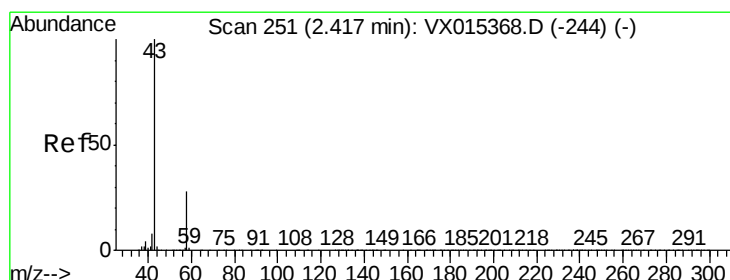
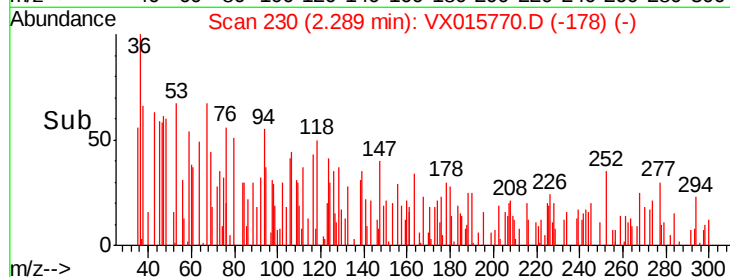
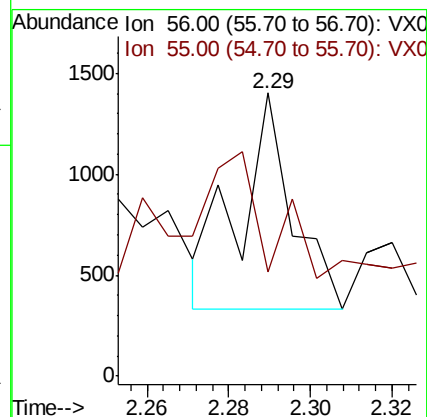
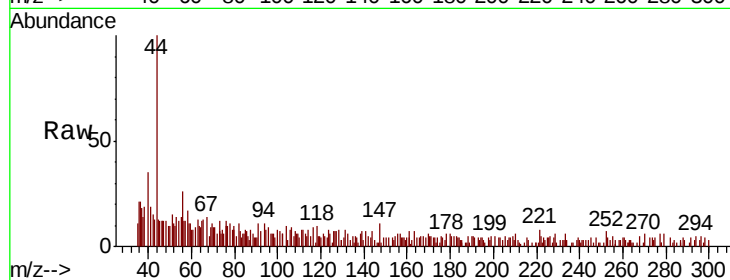
ClientSampleId :

Tot Ion: 56 Resp: 968

Ion Ratio Lower Upper

56 100

55 54.4 57.0 85.4#



#16

Acetone

Concen: 7.486 ug/l

RT: 2.42 min Scan# 251

Delta R.T. 0.00 min

Lab File: VX015770.D

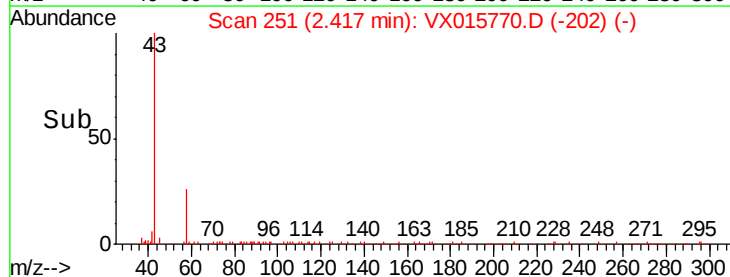
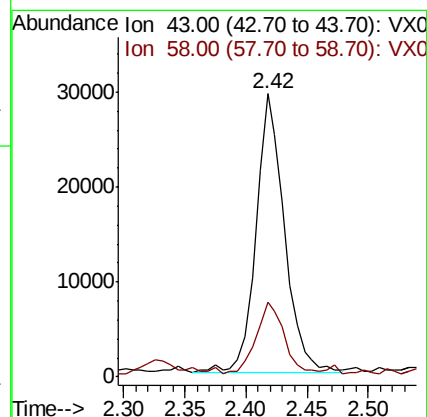
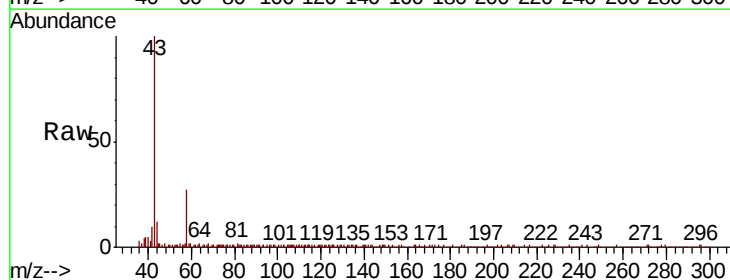
Acq: 20 Apr 2020 16:57

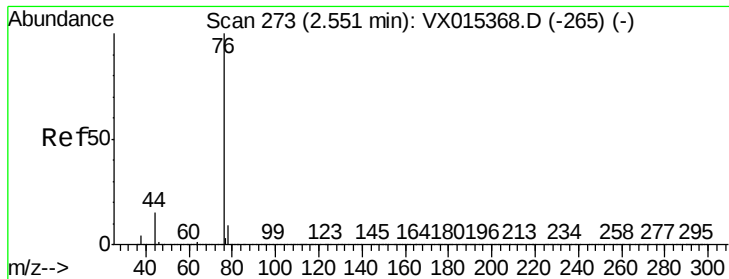
Tgt Ion: 43 Resp: 47317

Ion Ratio Lower Upper

43 100

58 25.8 22.1 33.1





#17

Carbon Disulfide

Concen: 10.594 ug/l

RT: 2.55 min Scan# 273

Delta R.T. 0.00 min

Lab File: VX015770.D

Acq: 20 Apr 2020 16:57

Instrument :

MSVOA_X

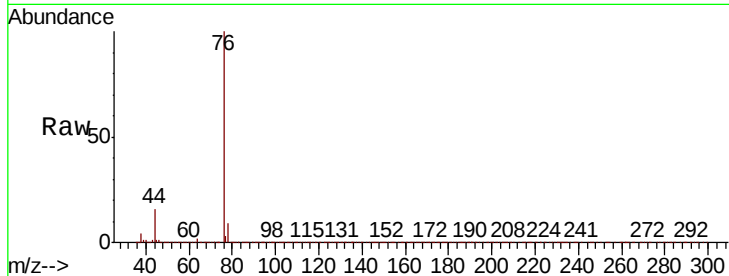
ClientSampleId :

Tot Ion: 76 Resp: 318253

Ion Ratio Lower Upper

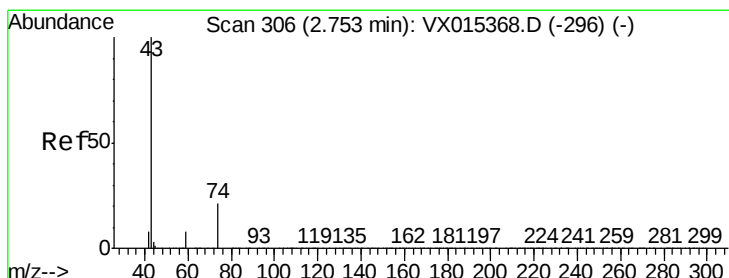
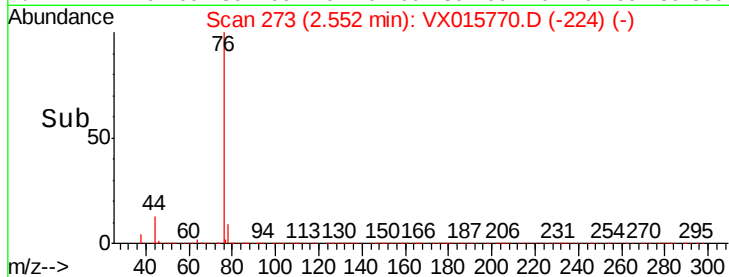
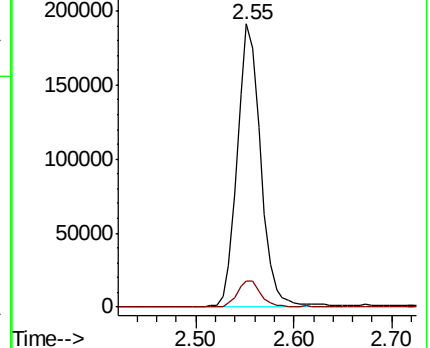
76 100

78 8.8 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 1.110 ug/l

RT: 2.75 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX015770.D

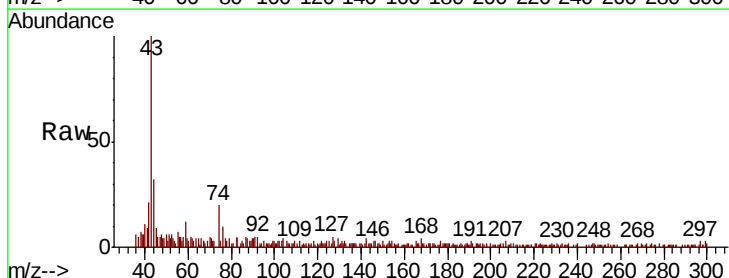
Acq: 20 Apr 2020 16:57

Tgt Ion: 43 Resp: 17913

Ion Ratio Lower Upper

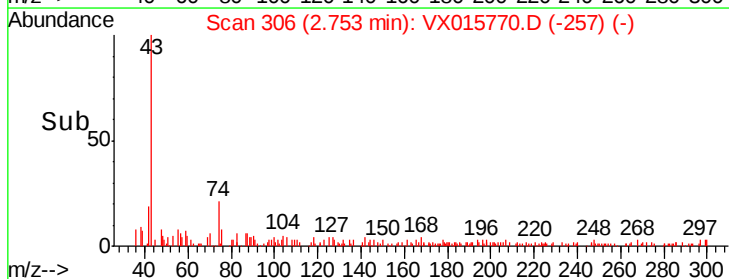
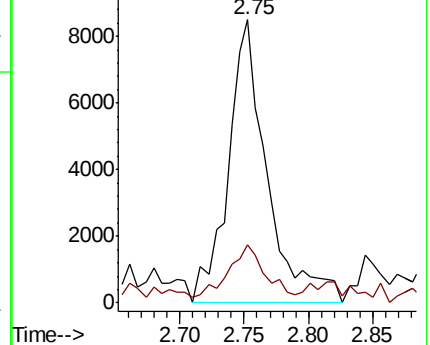
43 100

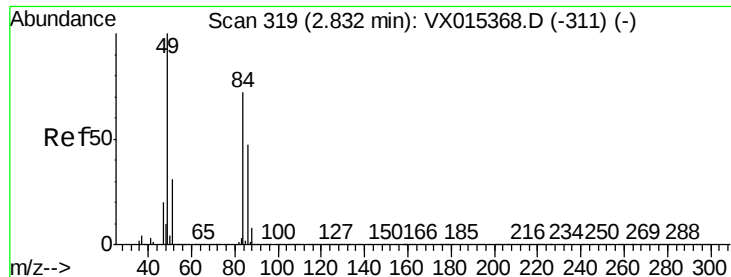
74 16.2 16.5 24.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

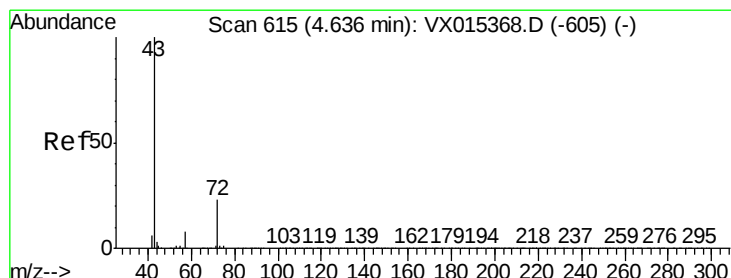
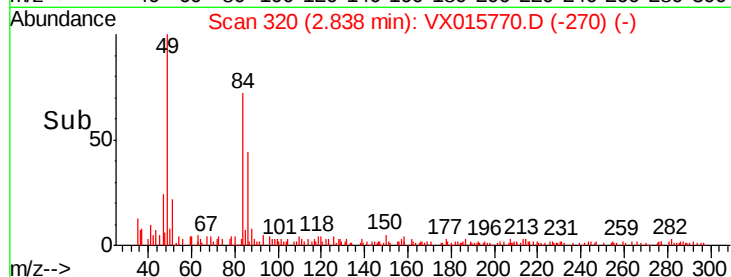
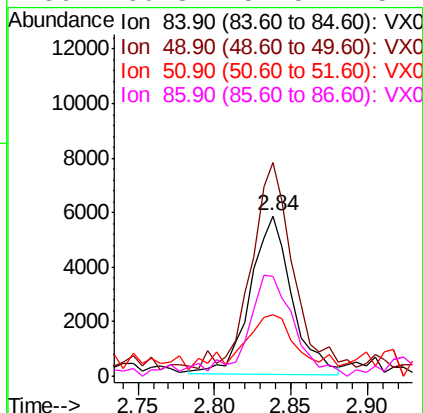
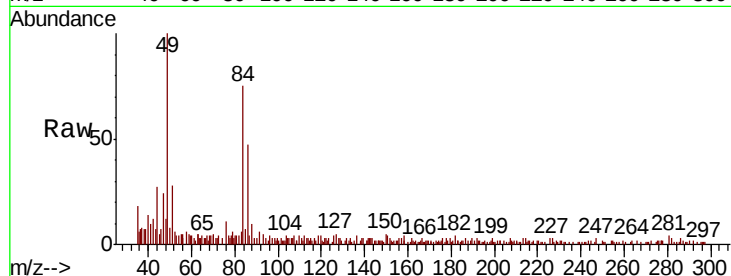




#20
Methvlene Chloride
Concen: 0.928 ug/l
RT: 2.84 min Scan# 320
Delta R.T. 0.01 min
Lab File: VX015770.D
Acq: 20 Apr 2020 16:57

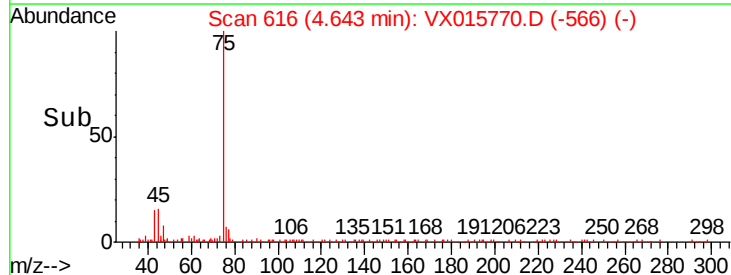
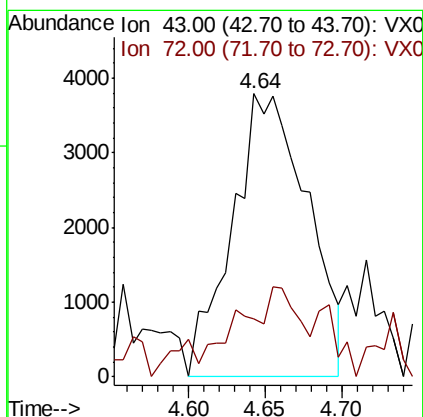
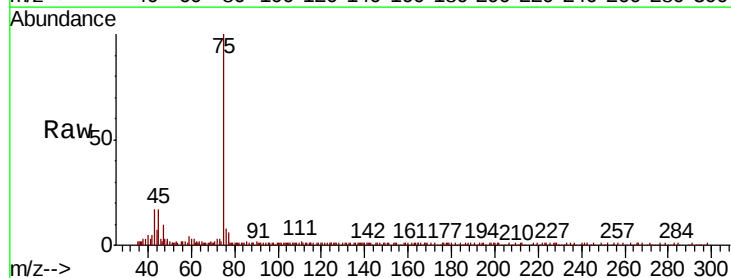
Instrument :
MSVOA_X
ClientSampleId :

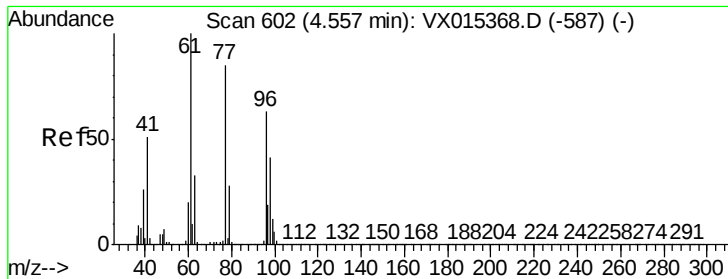
Tot Ion:	84	Resp:	10951
Ion	Ratio	Lower	Upper
84	100		
49	128.6	111.3	166.9
51	35.1	34.0	51.0
86	60.3	52.5	78.7



#25
2-Butanone
Concen: 1.278 ug/l
RT: 4.64 min Scan# 616
Delta R.T. 0.01 min
Lab File: VX015770.D
Acq: 20 Apr 2020 16:57

Tgt Ion:	43	Resp:	12986
Ion	Ratio	Lower	Upper
43	100		
72	7.2	19.0	28.4#

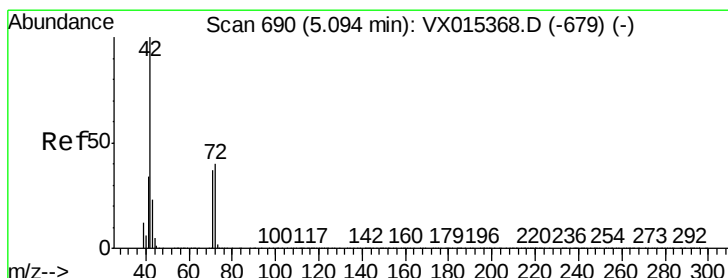
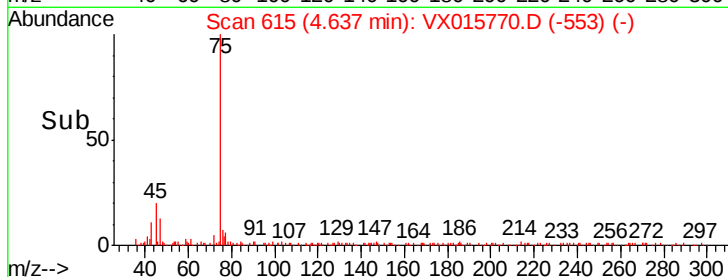
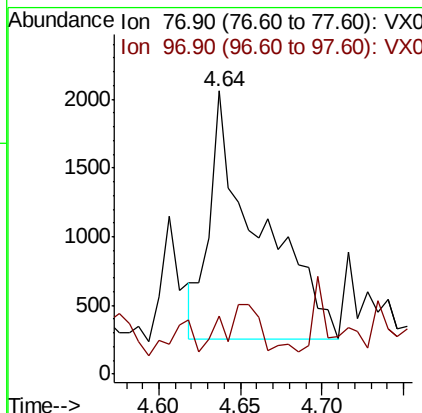
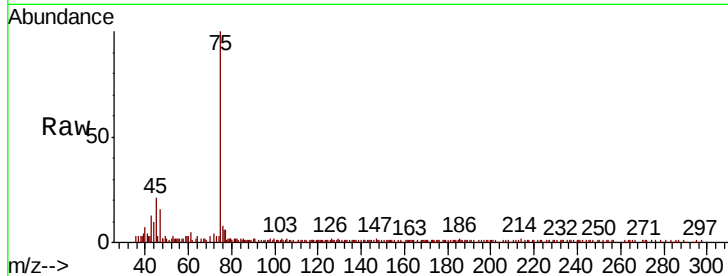




#26
 2,2-Dichloropropane
 Concen: 0.216 ug/l
 RT: 4.64 min Scan# 615
 Delta R.T. 0.08 min
 Lab File: VX015770.D
 Acq: 20 Apr 2020 16:57

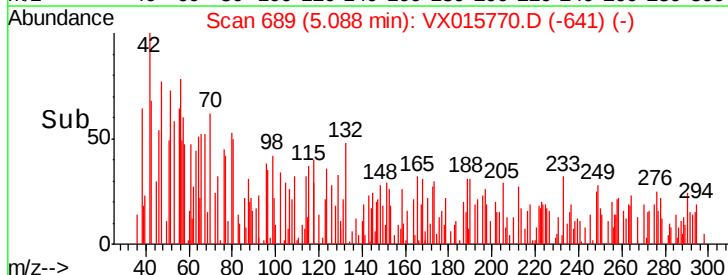
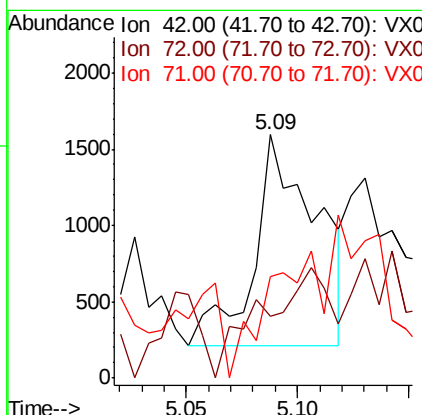
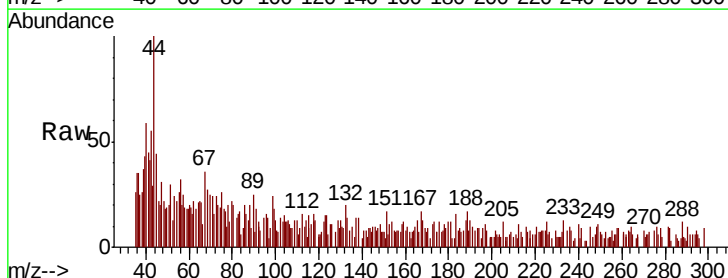
Instrument :
 MSVOA_X
 ClientSampled :

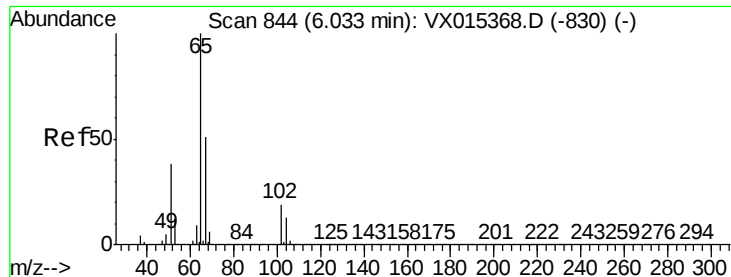
Tot Ion: 77 Resp: 3804
 Ion Ratio Lower Upper
 77 100
 97 13.6 11.3 33.8



#29
 Tetrahydrofuran
 Concen: 0.412 ug/l
 RT: 5.09 min Scan# 689
 Delta R.T. -0.01 min
 Lab File: VX015770.D
 Acq: 20 Apr 2020 16:57

Tgt Ion: 42 Resp: 2694
 Ion Ratio Lower Upper
 42 100
 72 0.0 31.7 47.5#
 71 35.2 29.6 44.4

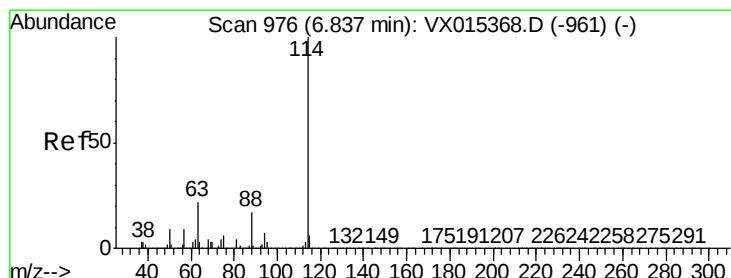
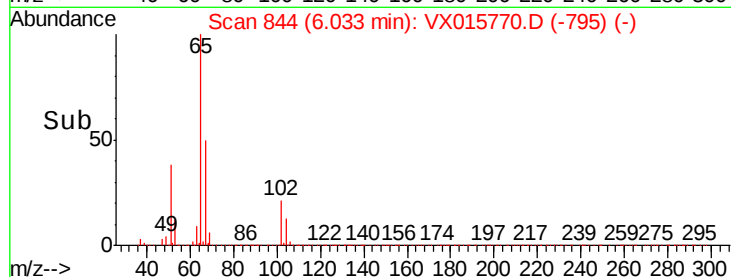
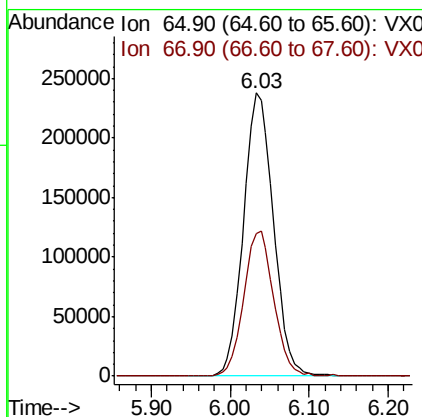
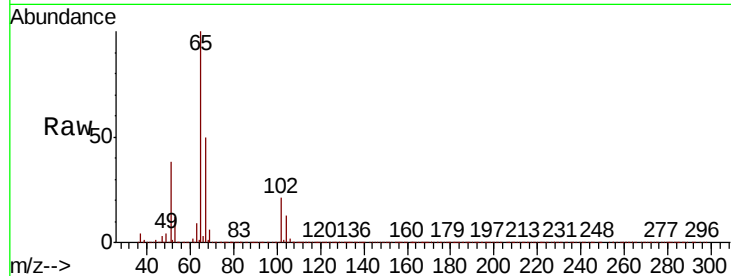




#33
 1,2-Dichloroethane-d4
 Concen: 42.714 ug/l
 RT: 6.03 min Scan# 844
 Delta R.T. 0.00 min
 Lab File: VX015770.D
 Acq: 20 Apr 2020 16:57

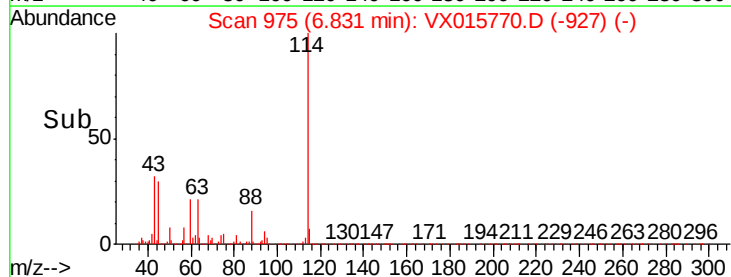
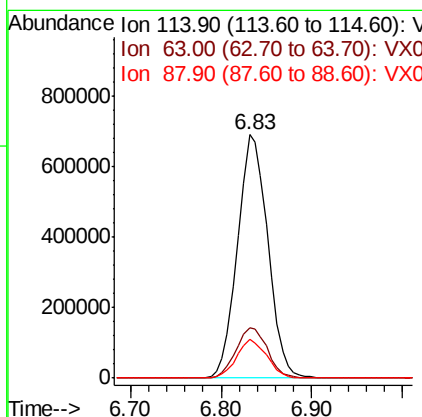
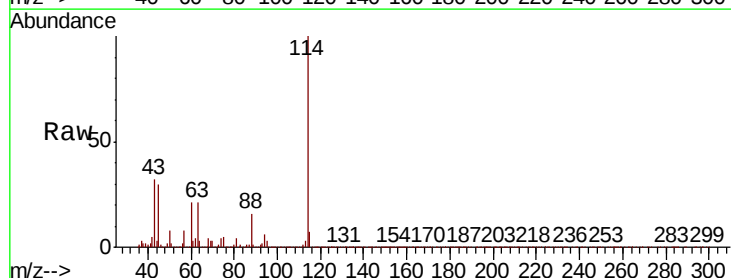
Instrument :
 MSVOA_X
 ClientSampleId :

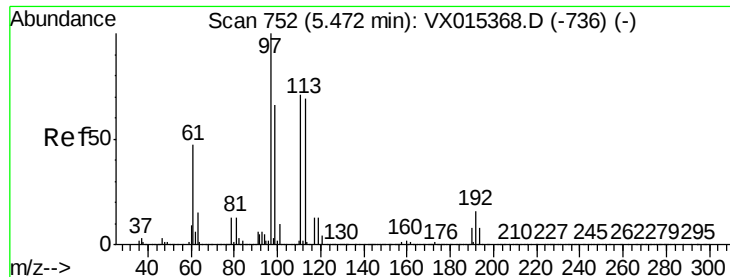
Tot Ion: 65 Resp: 628390
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 975
 Delta R.T. -0.01 min
 Lab File: VX015770.D
 Acq: 20 Apr 2020 16:57

Tgt Ion: 114 Resp: 1605740
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 44.2
 88 15.8 0.0 33.8

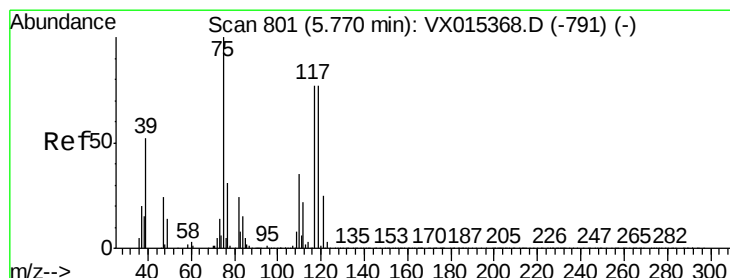
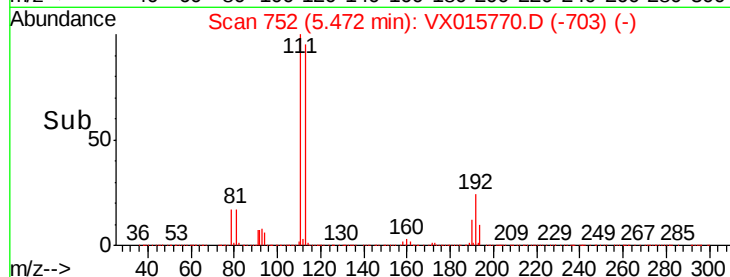
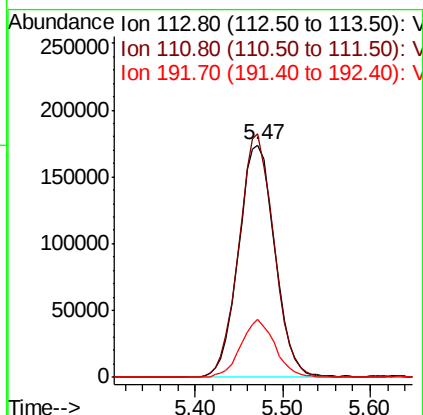
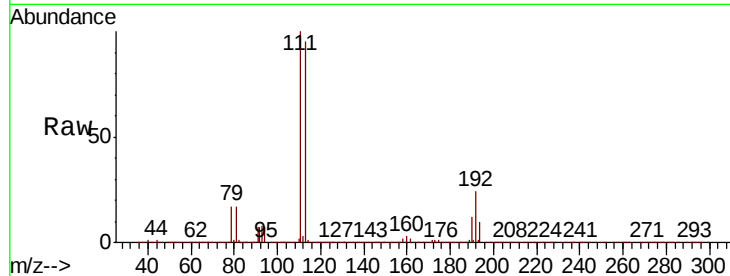




#35
Dibromofluoromethane
Concen: 48.861 ug/l
RT: 5.47 min Scan# 752
Delta R.T. 0.00 min
Lab File: VX015770.D
Acq: 20 Apr 2020 16:57

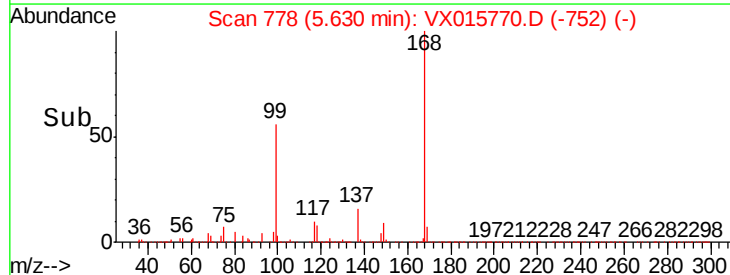
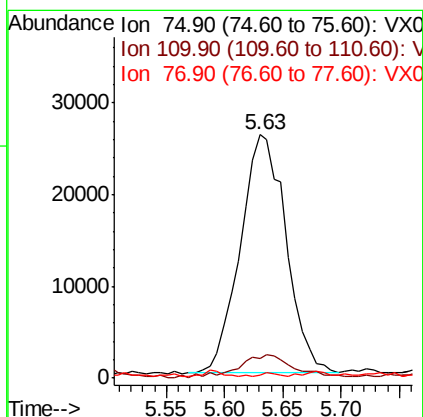
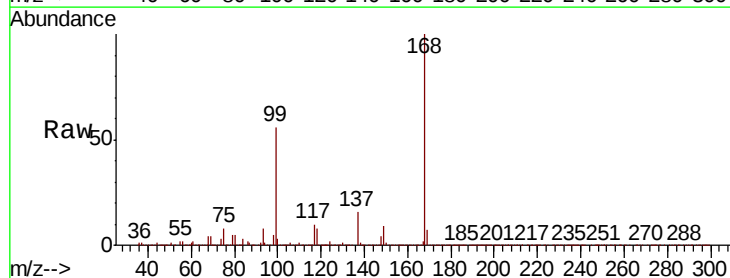
Instrument :
MSVOA_X
ClientSampleId :

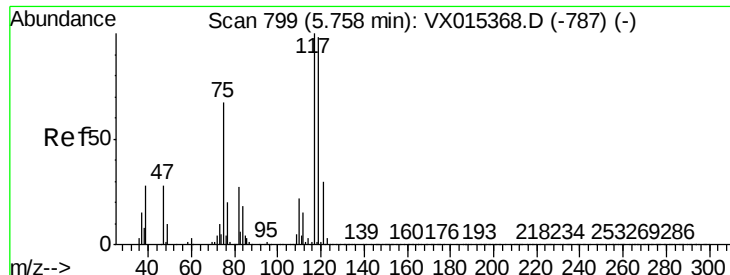
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.5	122.3
192	23.7	17.8	26.6



#36
1,1-Dichloropropene
Concen: 4.802 ug/l
RT: 5.63 min Scan# 778
Delta R.T. -0.14 min
Lab File: VX015770.D
Acq: 20 Apr 2020 16:57

Tgt Ion	Ratio	Lower	Upper
75	100		
110	12.1	17.1	51.3#
77	0.6	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 6.012 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.13 min

Lab File: VX015770.D

Acq: 20 Apr 2020 16:57

Instrument :

MSVOA_X

ClientSampleId :

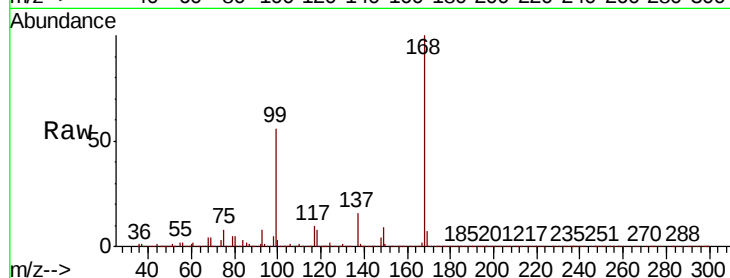
Tot Ion:117 Resp: 96342

Ion Ratio Lower Upper

117 100

119 2.9 78.0 117.0#

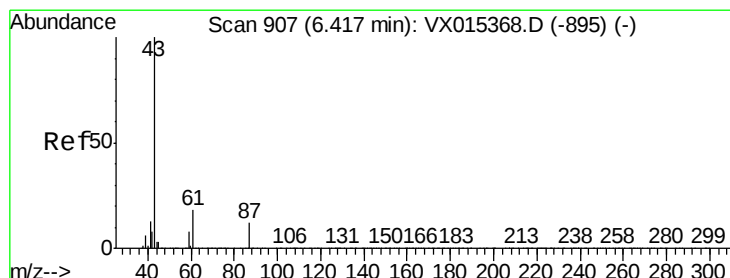
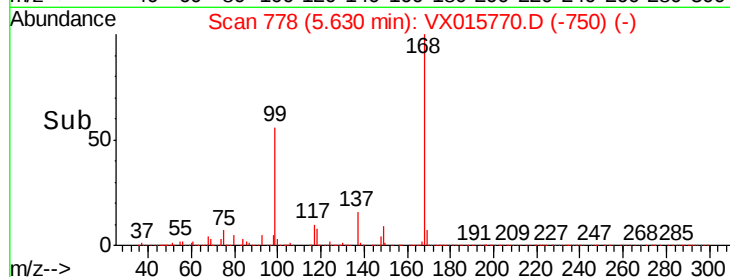
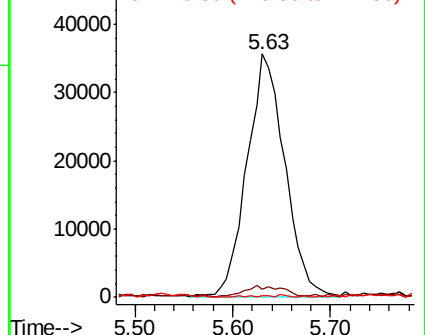
121 0.6 23.8 35.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 12.256 ug/l

RT: 6.42 min Scan# 907

Delta R.T. 0.00 min

Lab File: VX015770.D

Acq: 20 Apr 2020 16:57

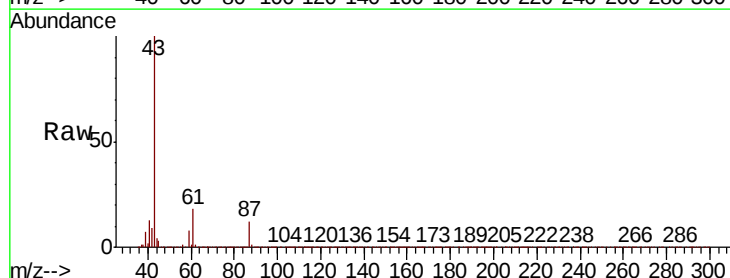
Tgt Ion: 43 Resp: 398554

Ion Ratio Lower Upper

43 100

61 18.6 14.8 22.2

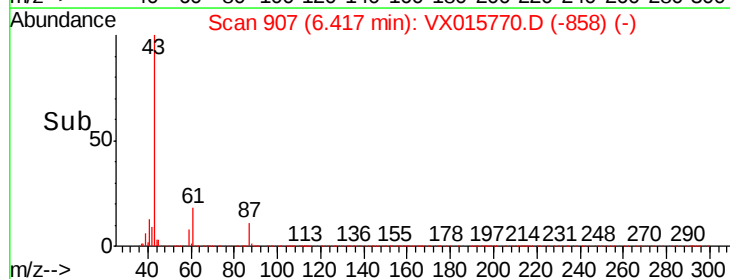
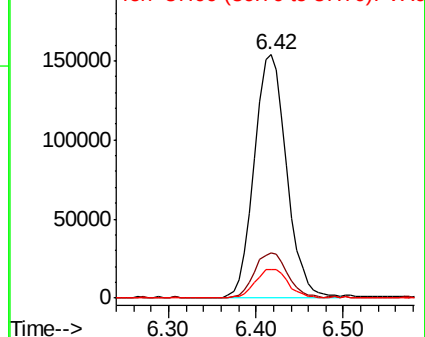
87 11.9 9.4 14.0

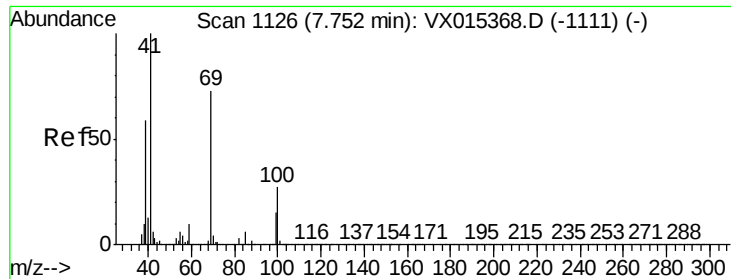


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

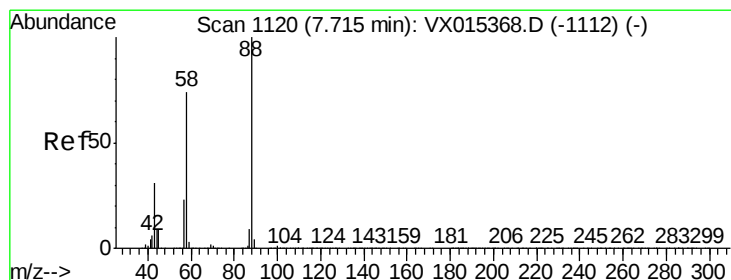
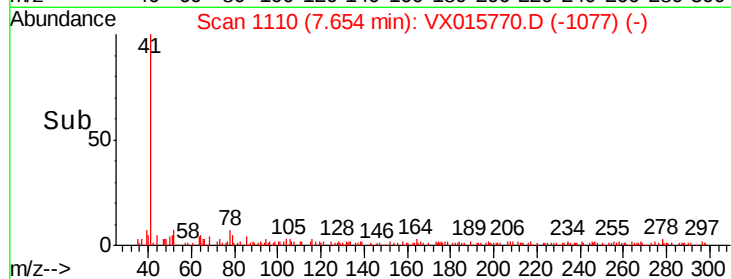
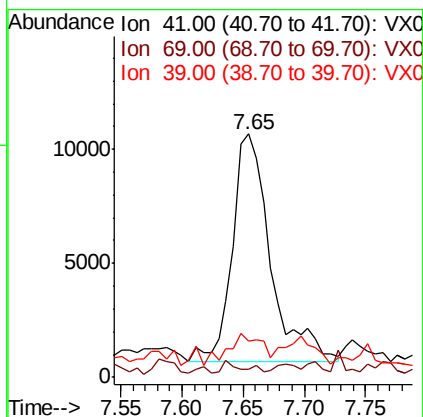
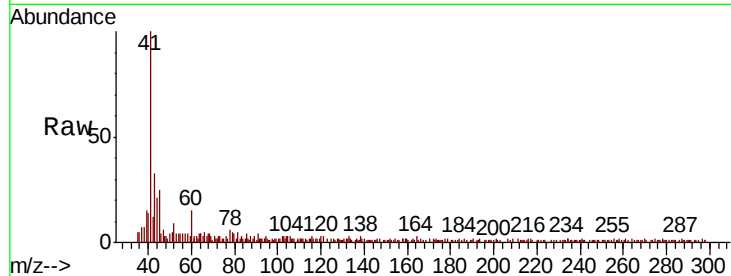




#48
Methvl methacrylate
Concen: 1.338 ug/l
RT: 7.65 min Scan# 1110
Delta R.T. -0.10 min
Lab File: VX015770.D
Acq: 20 Apr 2020 16:57

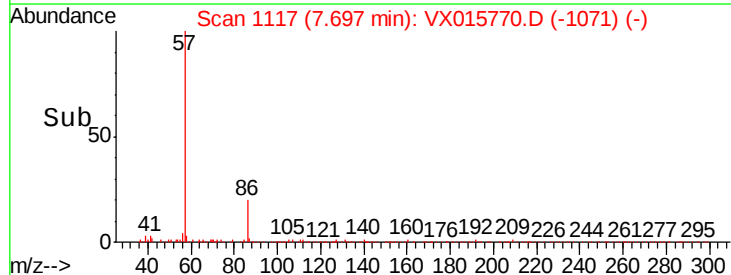
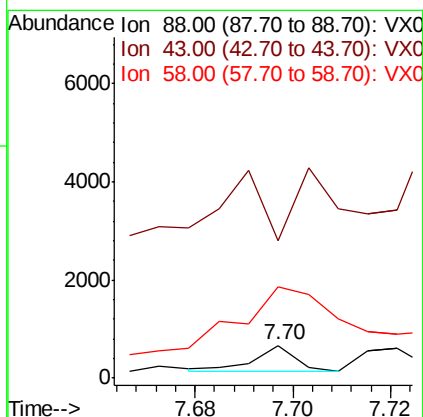
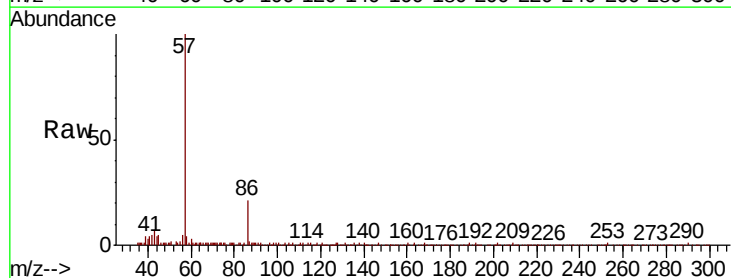
Instrument :
MSVOA_X
ClientSampleId :

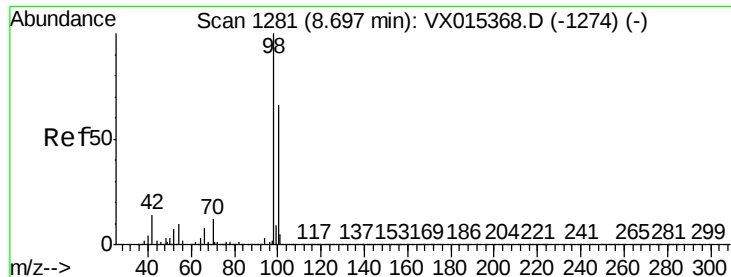
Tot Ion	Ratio	Lower	Upper
41	100		
69	2.0	56.7	85.1#
39	0.0	46.5	69.7#



#49
1,4-Dioxane
Concen: 1.046 ug/l
RT: 7.70 min Scan# 1117
Delta R.T. -0.02 min
Lab File: VX015770.D
Acq: 20 Apr 2020 16:57

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	30.1	45.1#
58	871.3	60.6	90.8#

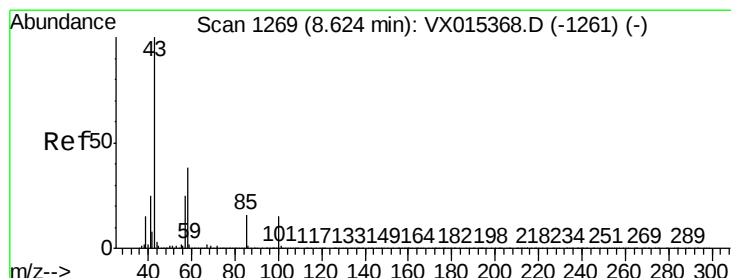
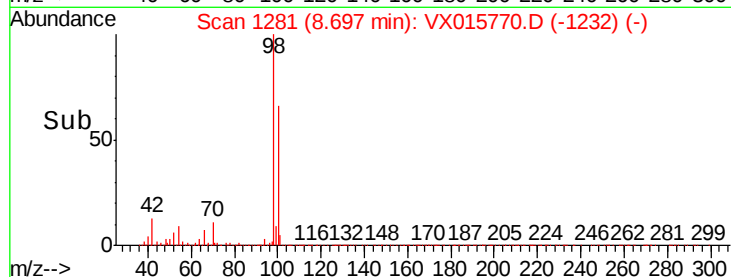
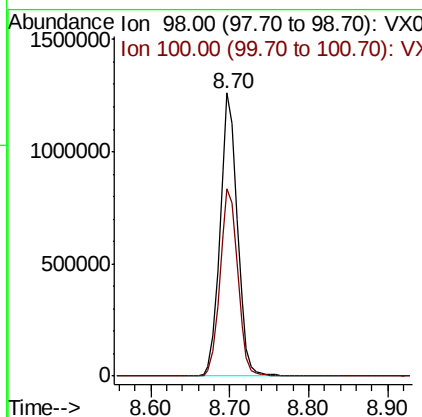
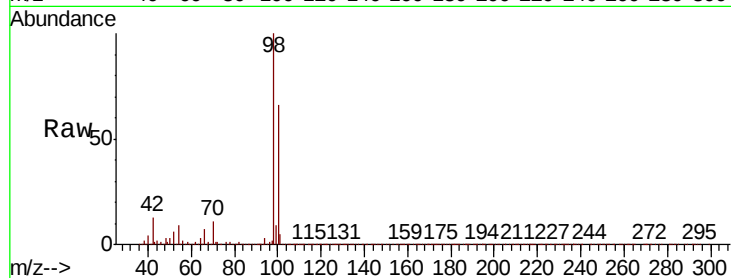




#50
Toluene-d8
Concen: 50.945 ug/l
RT: 8.70 min Scan# 1281
Delta R.T. 0.00 min
Lab File: VX015770.D
Acq: 20 Apr 2020 16:57

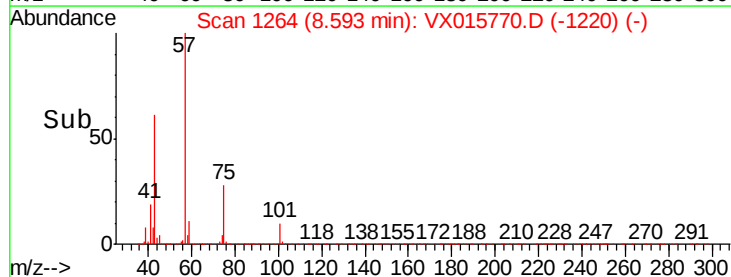
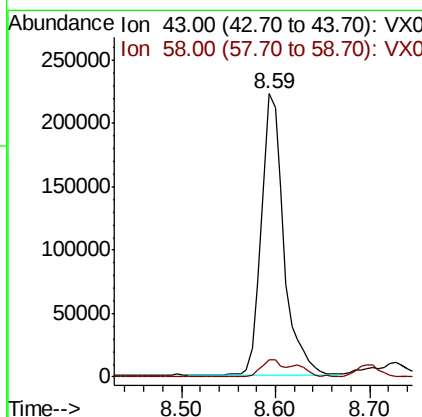
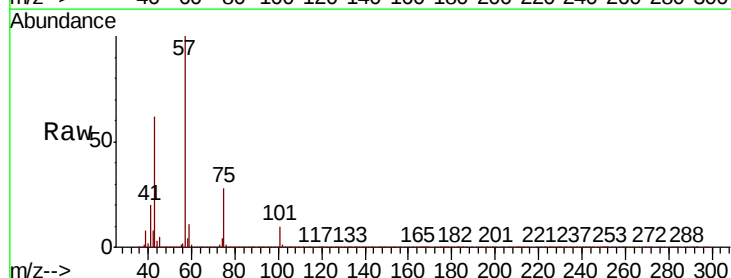
Instrument :
MSVOA_X
ClientSampleId :

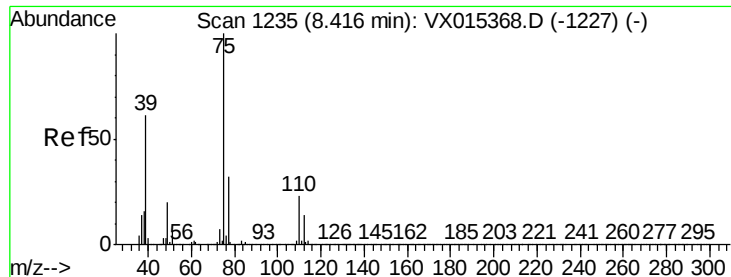
Tot Ion: 98 Resp: 1925237
Ion Ratio Lower Upper
98 100
100 68.1 53.5 80.3



#51
4-Methyl-2-Pentanone
Concen: 20.242 ug/l
RT: 8.59 min Scan# 1264
Delta R.T. -0.03 min
Lab File: VX015770.D
Acq: 20 Apr 2020 16:57

Tgt Ion: 43 Resp: 373064
Ion Ratio Lower Upper
43 100
58 5.7 29.7 44.5#



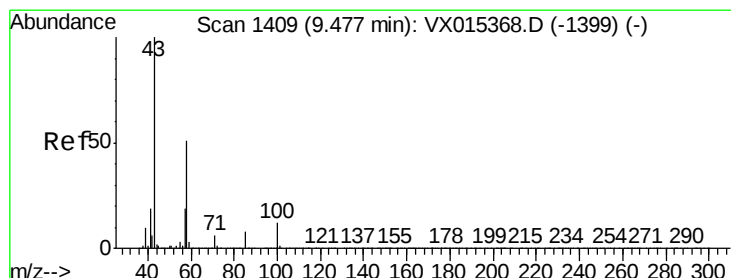
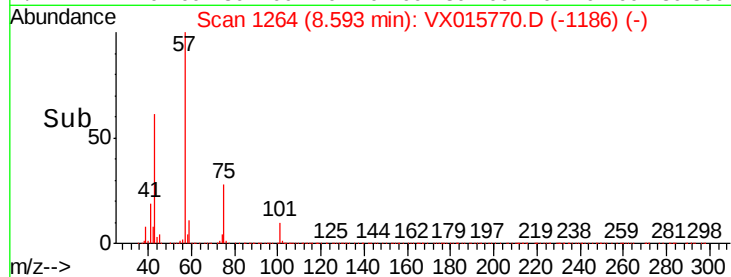
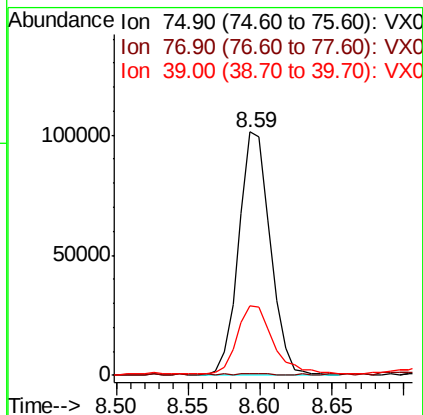
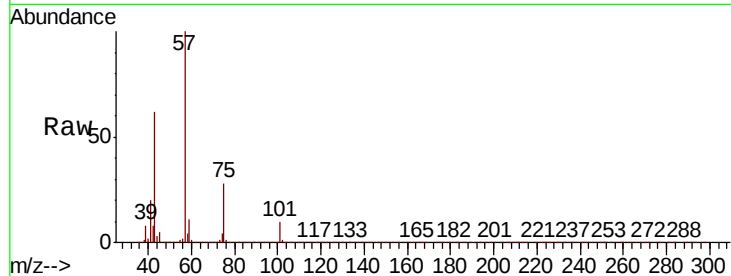


#54

cis-1,3-Dichloropropene
 Concen: 7.814 ug/l
 RT: 8.59 min Scan# 1264
 Delta R.T. 0.18 min
 Lab File: VX015770.D
 Acq: 20 Apr 2020 16:57

Instrument :
 MSVOA_X
 ClientSampled :

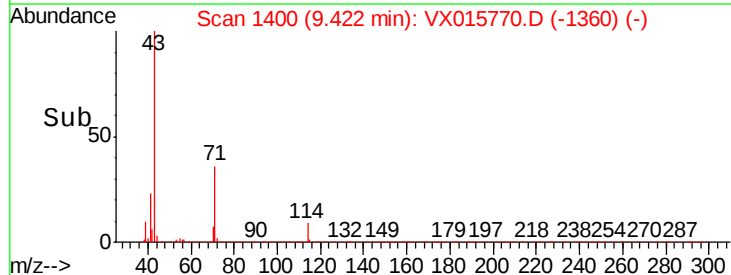
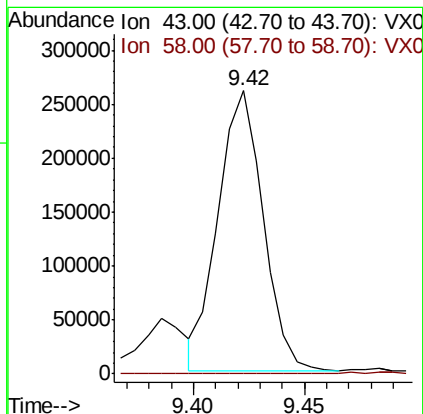
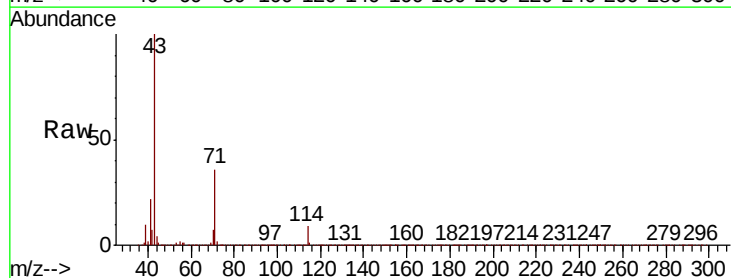
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.5	25.8	38.6#
39	27.7	49.0	73.4#

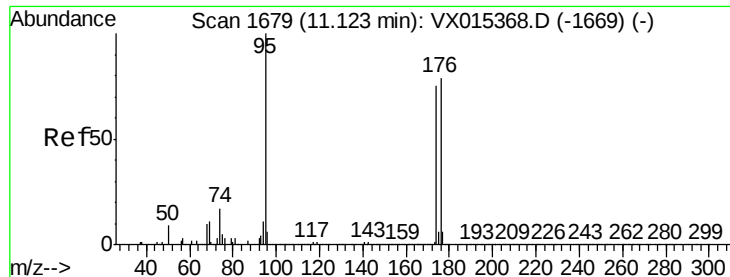


#59

2-Hexanone
 Concen: 26.191 ug/l
 RT: 9.42 min Scan# 1400
 Delta R.T. -0.05 min
 Lab File: VX015770.D
 Acq: 20 Apr 2020 16:57

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	25.6	76.6#

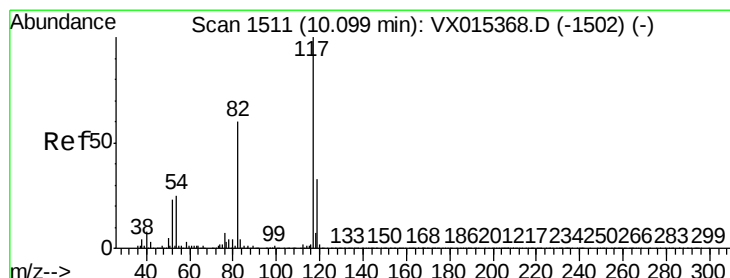
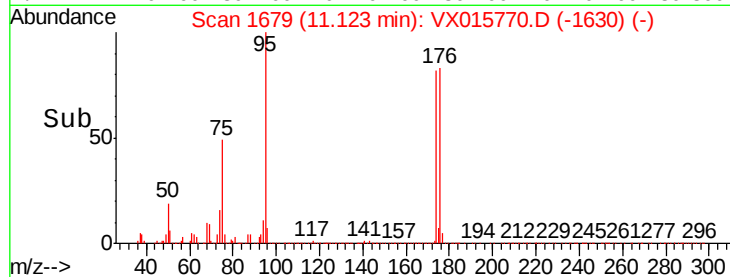
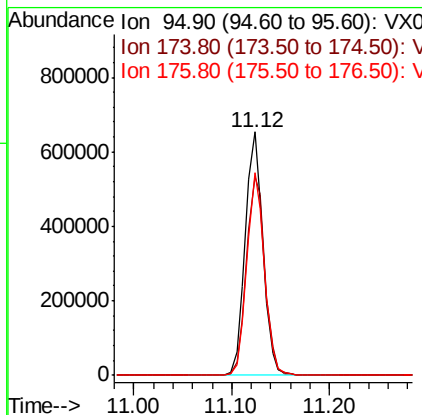
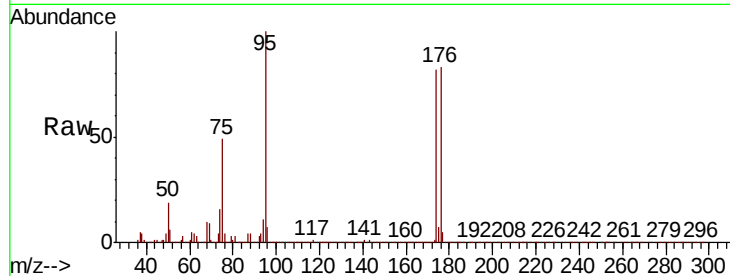




#62
4-Bromofluorobenzene
Concen: 53.543 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. 0.00 min
Lab File: VX015770.D
Acq: 20 Apr 2020 16:57

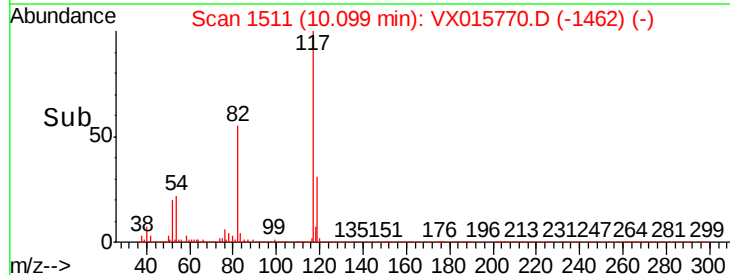
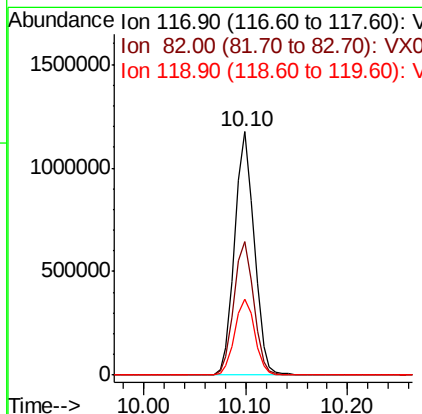
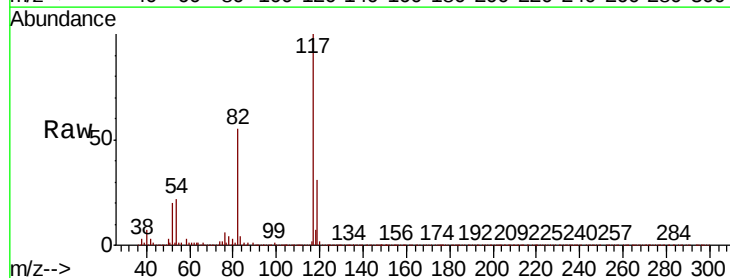
Instrument :
MSVOA_X
ClientSampleId :

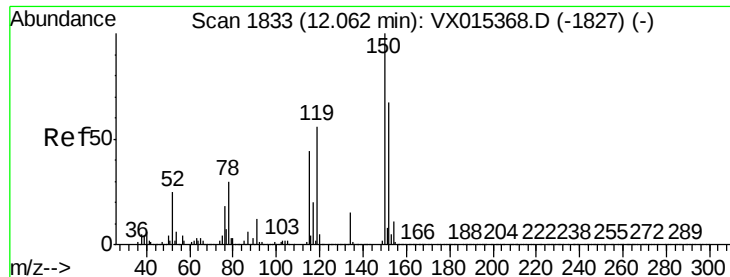
Tot Ion	Ratio	Lower	Upper
95	100		
174	85.1	0.0	158.6
176	82.3	0.0	159.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. 0.00 min
Lab File: VX015770.D
Acq: 20 Apr 2020 16:57

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.6	47.8	71.8
119	31.2	26.8	40.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX015770.D

Acq: 20 Apr 2020 16:57

Instrument :

MSVOA_X

ClientSampleId :

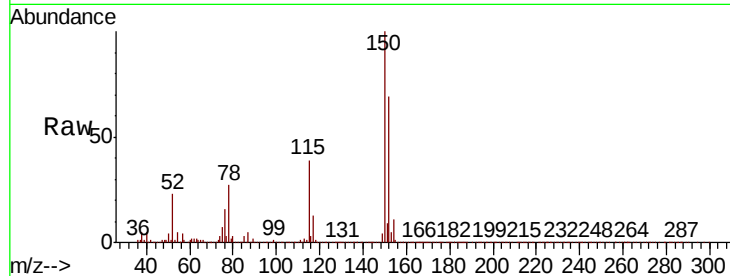
Tot Ion:152 Resp: 892992

Ion Ratio Lower Upper

152 100

115 55.3 39.0 116.9

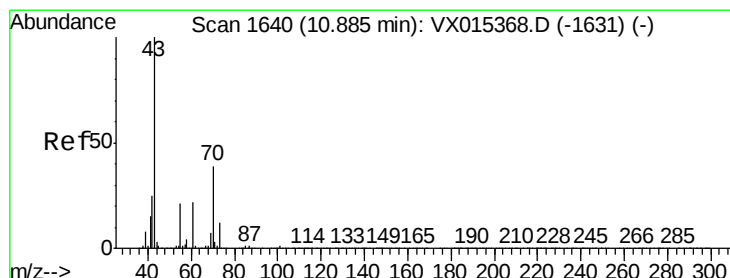
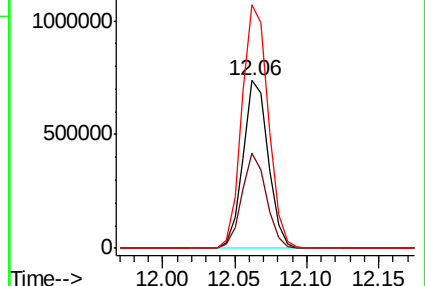
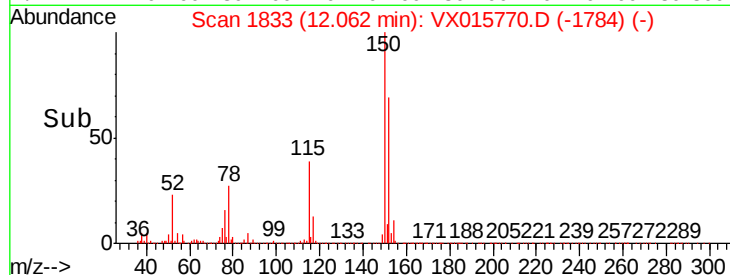
150 152.1 0.0 340.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.599 ug/l

RT: 10.81 min Scan# 1628

Delta R.T. -0.07 min

Lab File: VX015770.D

Acq: 20 Apr 2020 16:57

Tgt Ion: 43 Resp: 19485

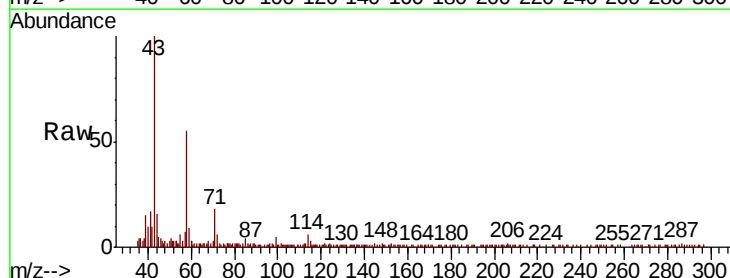
Ion Ratio Lower Upper

43 100

70 6.5 30.2 45.4#

55 7.5 16.8 25.2#

61 0.0 18.2 27.2#

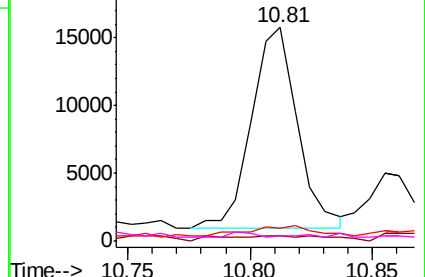
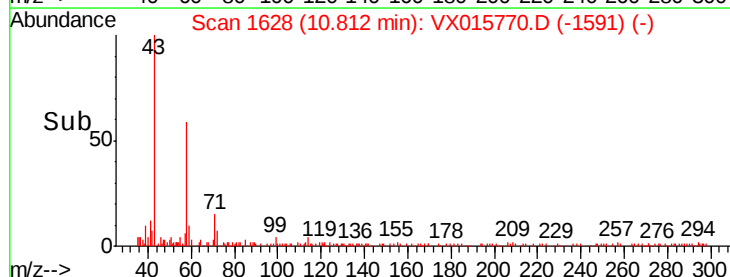


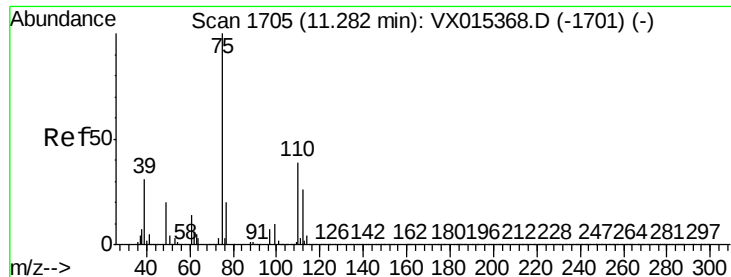
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.146 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015770.D

Acq: 20 Apr 2020 16:57

Instrument :

MSVOA_X

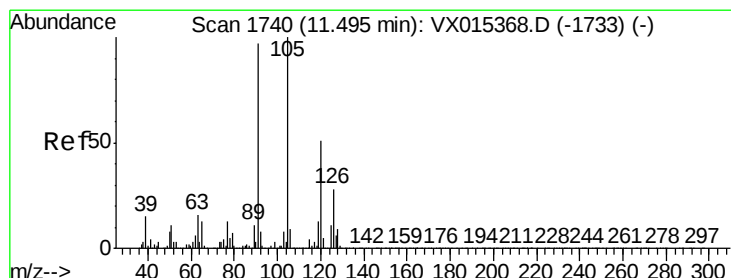
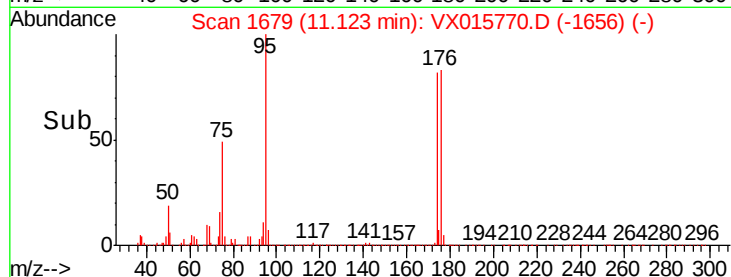
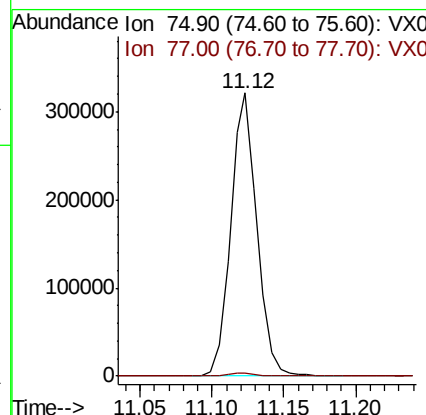
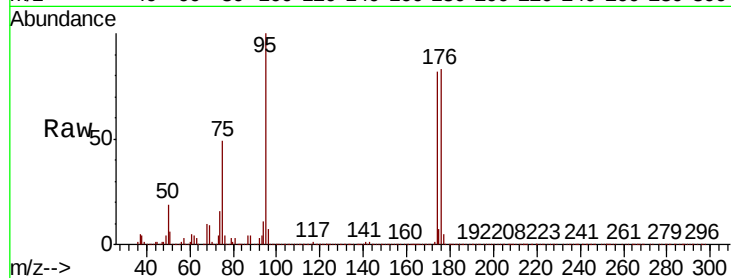
ClientSampleId :

Tot Ion: 75 Resp: 406691

Ion Ratio Lower Upper

75 100

77 1.1 21.2 63.6#



#80

1,3,5-Trimethylbenzene

Concen: 1.124 ug/l

RT: 11.50 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VX015770.D

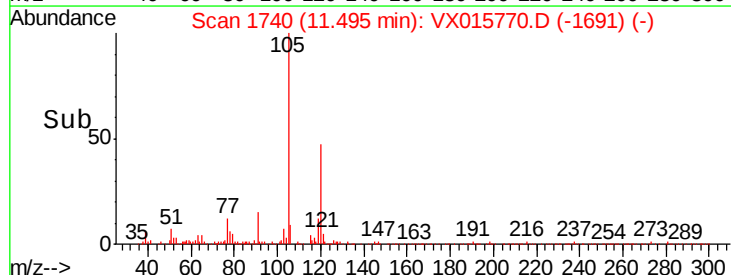
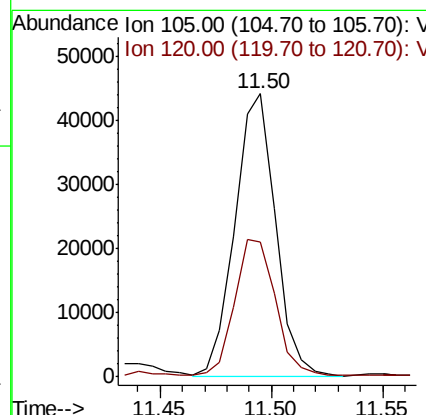
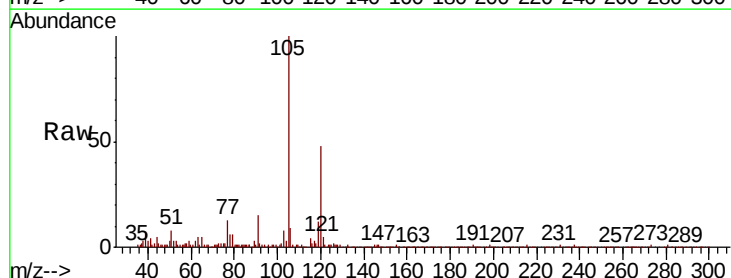
Acq: 20 Apr 2020 16:57

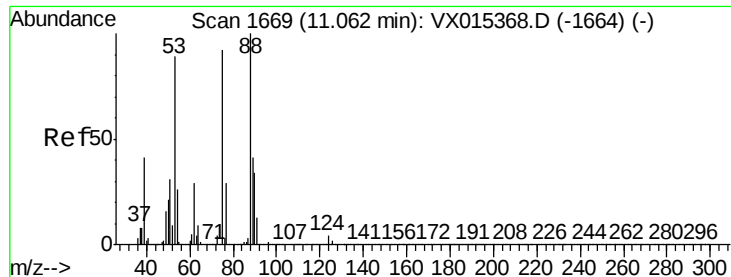
Tgt Ion:105 Resp: 56165

Ion Ratio Lower Upper

105 100

120 49.2 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 53.140 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015770.D

Acq: 20 Apr 2020 16:57

Instrument :

MSVOA_X

ClientSampleId :

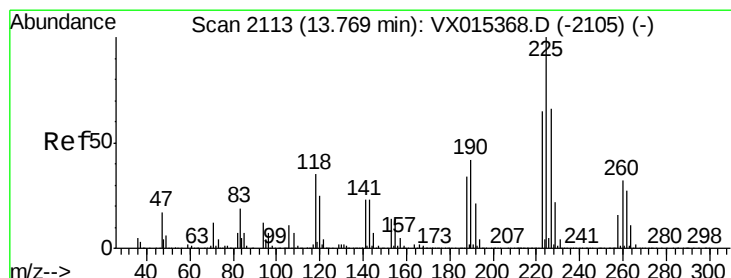
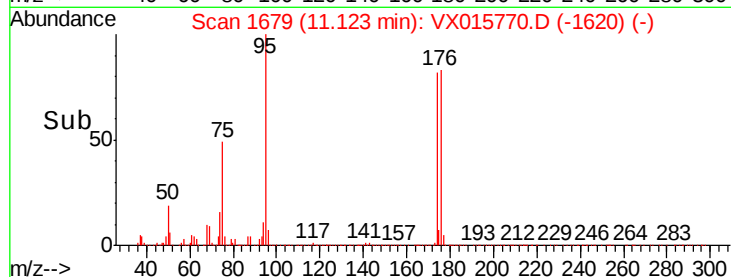
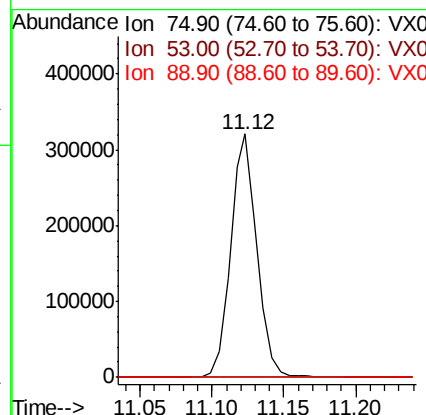
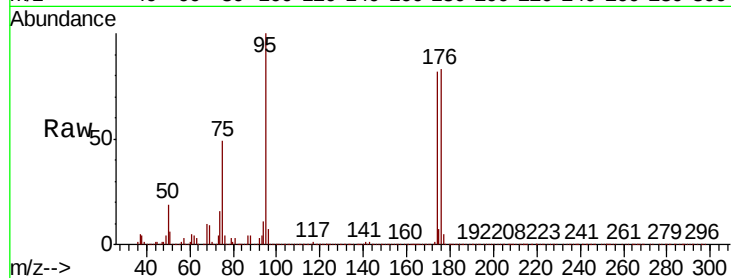
Tot Ion: 75 Resp: 406691

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

89 0.0 36.1 54.1#



#94

Hexachlorobutadiene

Concen: 0.287 ug/l

RT: 13.77 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VX015770.D

Acq: 20 Apr 2020 16:57

Tgt Ion: 225 Resp: 2951

Ion Ratio Lower Upper

225 100

223 61.5 31.9 95.7

227 64.8 30.4 91.3

