

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072420\
 Data File : VX017594.D
 Acq On : 25 Jul 2020 14:29
 Operator : JC/SP
 Sample : L3371-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 68 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 27 01:14:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	448369	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	751786	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	786179	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	429282	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	312898	54.33	ug/l	0.00
Spiked Amount			Recovery	=	108.66%	
35) Dibromofluoromethane	5.46	113	253563	50.43	ug/l	0.00
Spiked Amount			Recovery	=	100.86%	
50) Toluene-d8	8.70	98	929187	51.23	ug/l	0.00
Spiked Amount			Recovery	=	102.46%	
62) 4-Bromofluorobenzene	11.12	95	399838	55.08	ug/l	0.00
Spiked Amount			Recovery	=	110.16%	

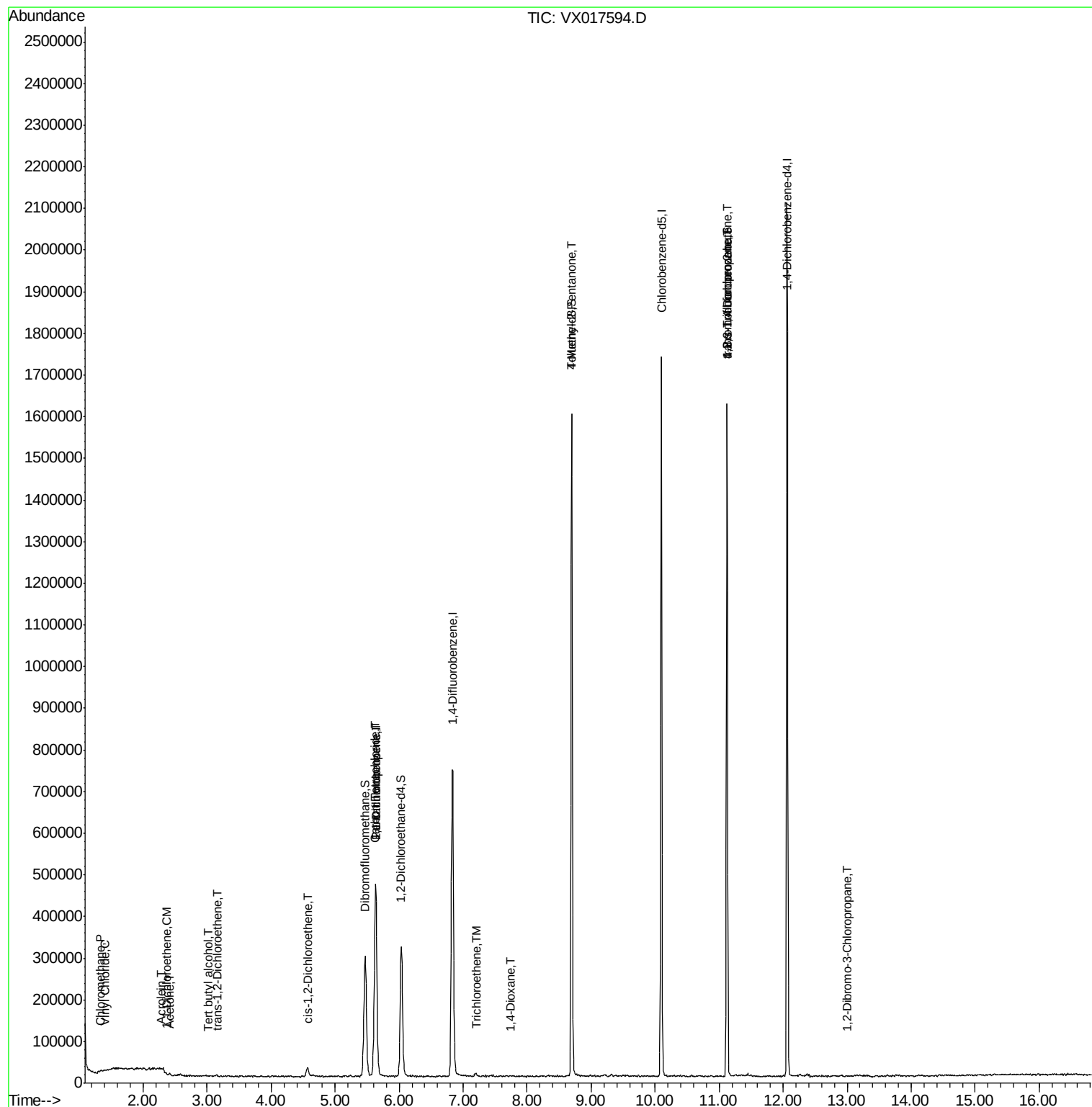
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	539	Below Cal		83
3) Chloromethane	1.32	50	1116	0.567 ug/l #		52
4) Vinyl Chloride	1.40	62	1149	0.204 ug/l #		68
5) Bromomethane	1.61	94	488	Below Cal #		3
6) Chloroethane	1.71	64	223	Below Cal #		44
8) Diethyl Ether	2.16	74	443	Below Cal		93
11) Tert butyl alcohol	3.01	59	1808	1.489 ug/l #		30
12) 1,1-Dichloroethene	2.37	96	1248	0.269 ug/l #		49
13) Acrolein	2.28	56	874	5.076 ug/l #		32
16) Acetone	2.42	43	2738	1.080 ug/l #		74
20) Methylene Chloride	2.84	84	685	Below Cal #		72
21) trans-1,2-Dichloroethene	3.16	96	2450	0.494 ug/l #		17
27) cis-1,2-Dichloroethene	4.57	96	13598	2.523 ug/l		86
36) 1,1-Dichloropropene	5.63	75	33708	4.675 ug/l #		51
38) Carbon Tetrachloride	5.62	117	44220	5.050 ug/l #		16
44) Trichloroethene	7.20	130	2243	0.371 ug/l		60
49) 1,4-Dioxane	7.73	88	140	1.132 ug/l #		1
51) 4-Methyl-2-Pentanone	8.70	43	4561	0.587 ug/l #		1
76) 1,2,3-Trichloropropane	11.12	75	202282	22.907 ug/l #		35
81) trans-1,4-Dichloro-2-buten	11.12	75	202282	57.721 ug/l #		11
92) 1,2-Dibromo-3-Chloropropan	12.99	75	391	2.719 ug/l #		5

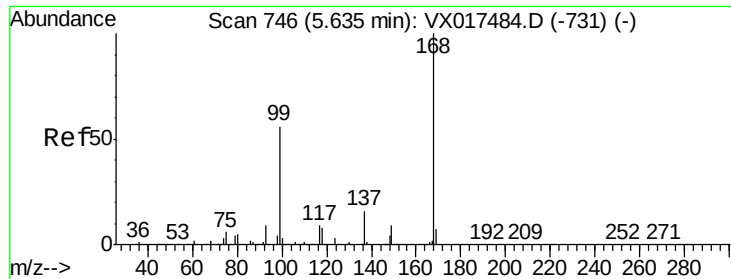
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jul 24 05:48:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017594.D

Acq: 25 Jul 2020 14:29

Instrument :

MSVOA_X

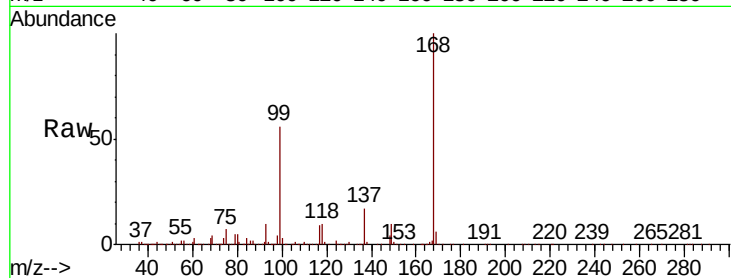
ClientSampleId :

Tot Ion:168 Resp: 448369

Ion Ratio Lower Upper

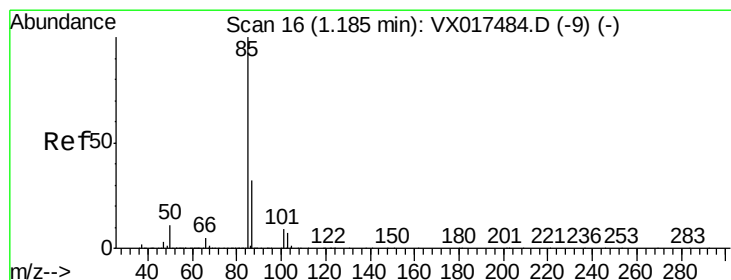
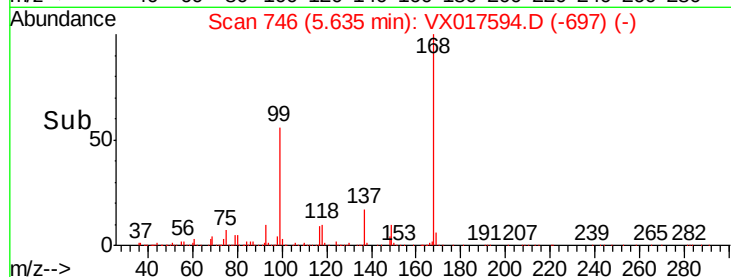
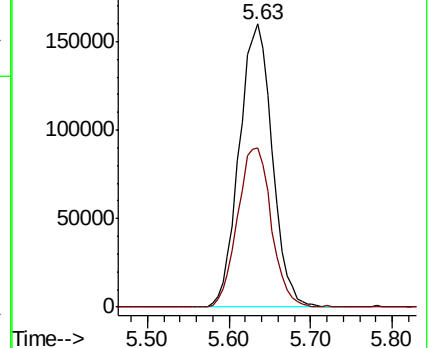
168 100

99 56.1 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017594.D

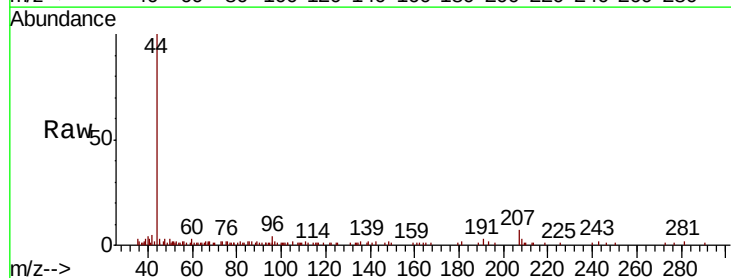
Acq: 25 Jul 2020 14:29

Tgt Ion: 85 Resp: 539

Ion Ratio Lower Upper

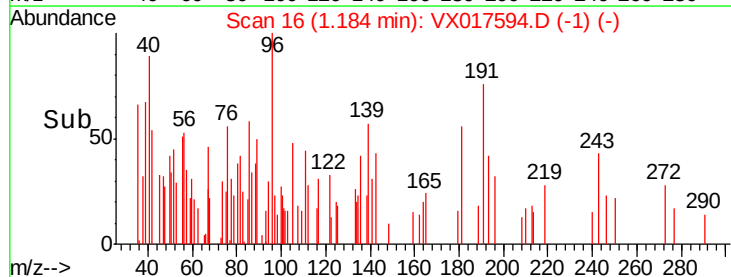
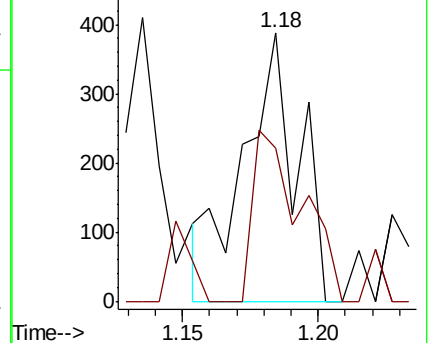
85 100

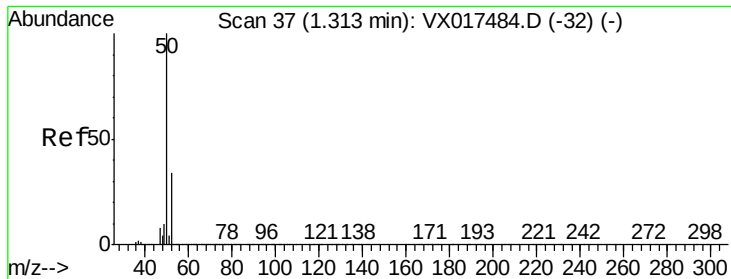
87 41.9 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.567 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017594.D

Acq: 25 Jul 2020 14:29

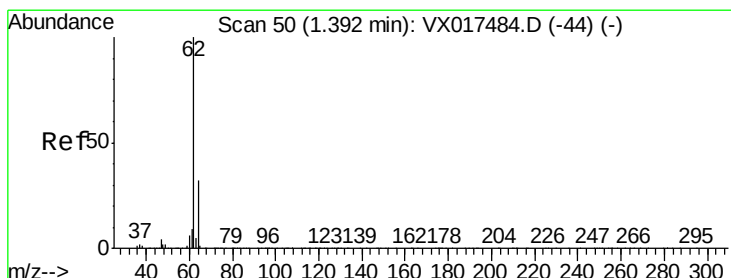
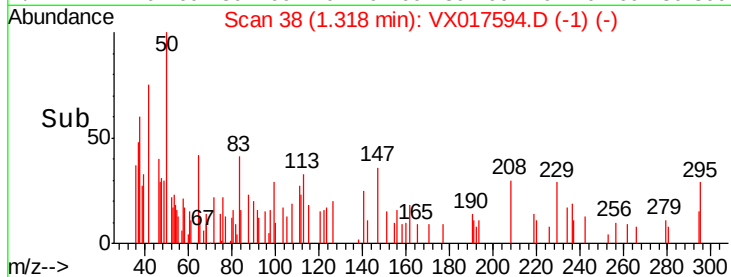
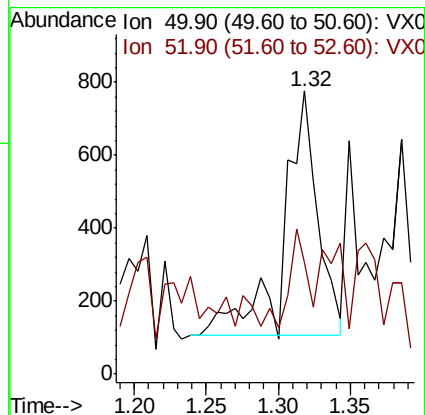
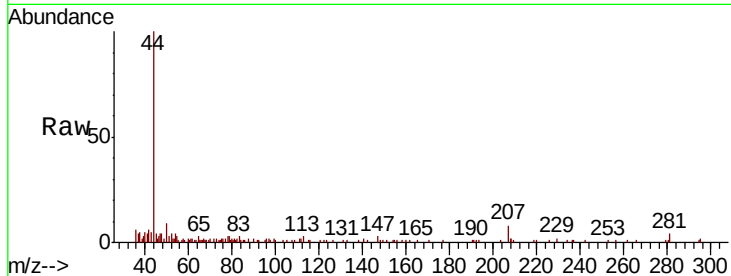
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 50 Resp: 1116

Ion Ratio Lower Upper

50 100

52 5.7 25.9 38.9#



#4

Vinyl Chloride

Concen: 0.204 ug/l

RT: 1.40 min Scan# 51

Delta R.T. 0.01 min

Lab File: VX017594.D

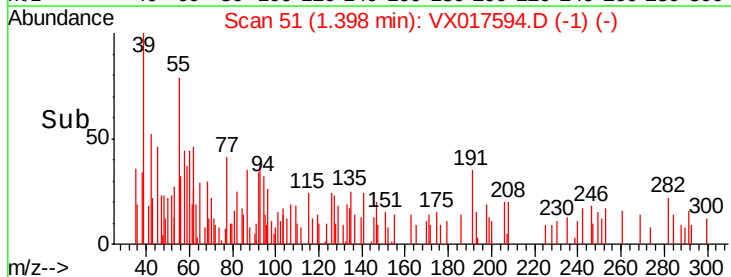
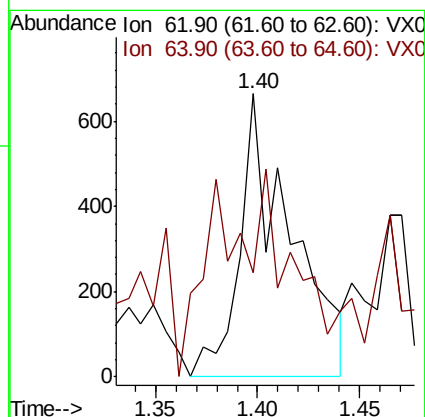
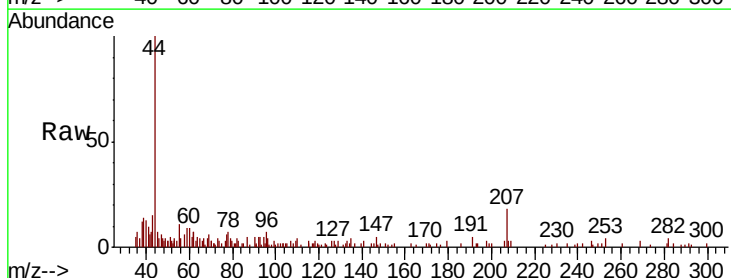
Acq: 25 Jul 2020 14:29

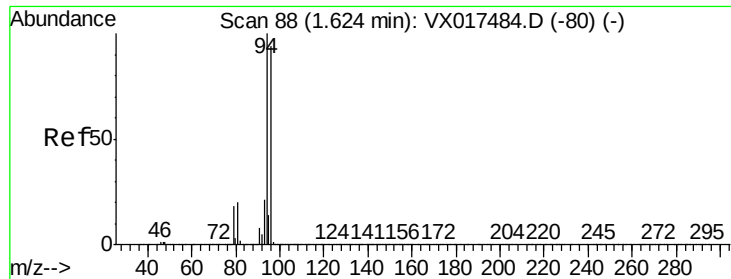
Tgt Ion: 62 Resp: 1149

Ion Ratio Lower Upper

62 100

64 13.6 25.2 37.8#





#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 85

Delta R.T. -0.02 min

Lab File: VX017594.D

Acq: 25 Jul 2020 14:29

Instrument :

MSVOA_X

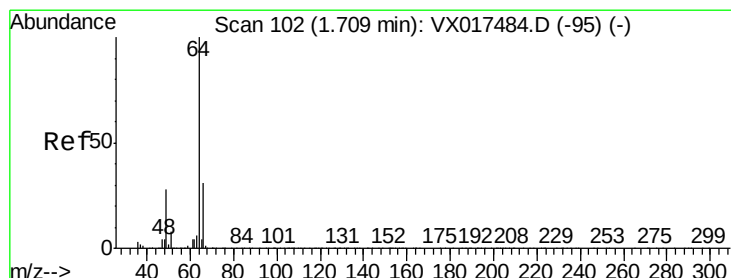
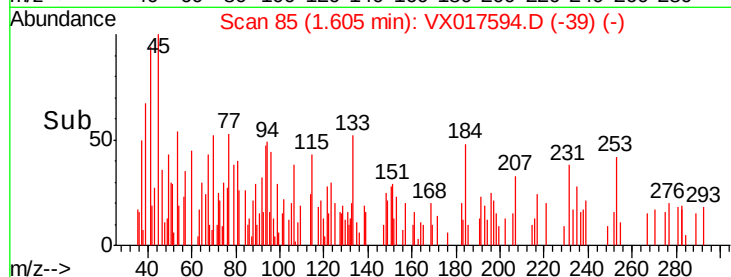
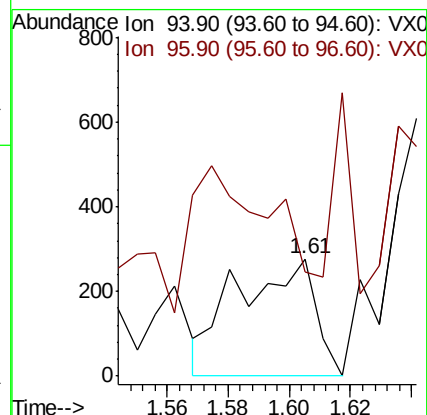
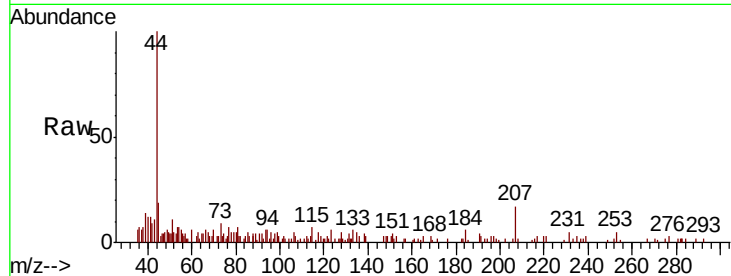
ClientSampleId :

Tot Ion: 94 Resp: 488

Ion Ratio Lower Upper

94 100

96 0.0 74.1 111.1#



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 102

Delta R.T. -0.00 min

Lab File: VX017594.D

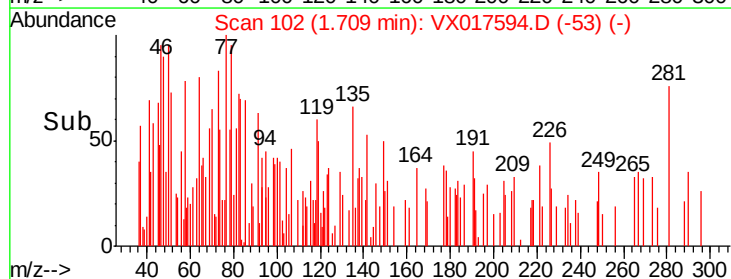
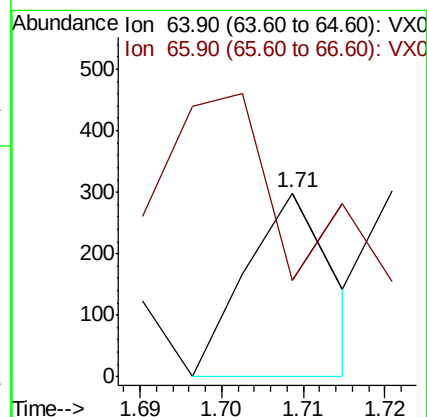
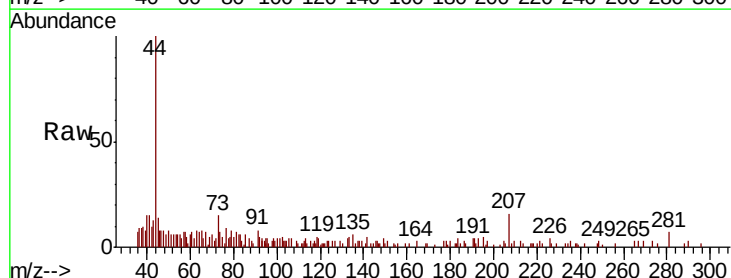
Acq: 25 Jul 2020 14:29

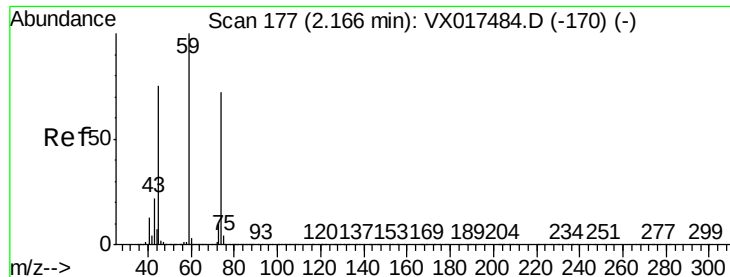
Tgt Ion: 64 Resp: 223

Ion Ratio Lower Upper

64 100

66 0.0 24.9 37.3#





#8

Diethyl Ether

Concen: Below Cal

RT: 2.16 min Scan# 176

Delta R.T. -0.01 min

Lab File: VX017594.D

Acq: 25 Jul 2020 14:29

Instrument :

MSVOA_X

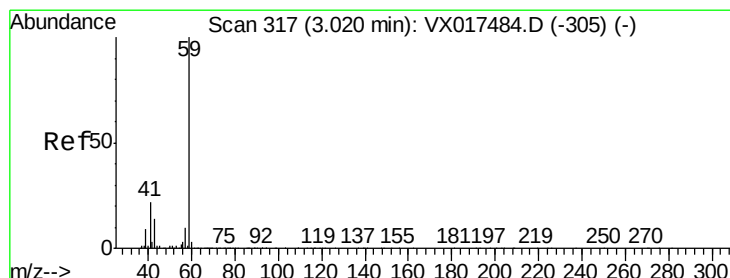
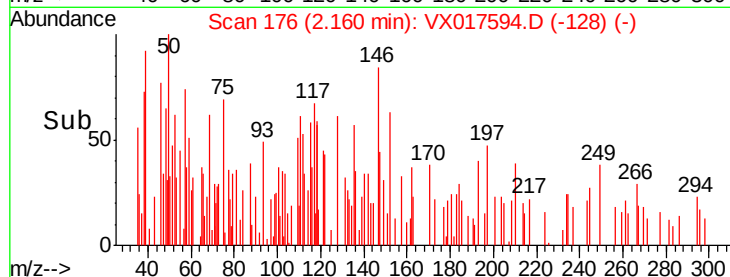
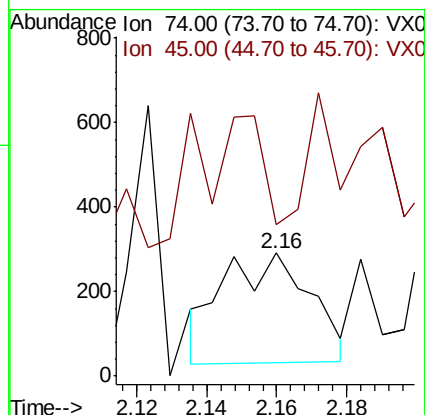
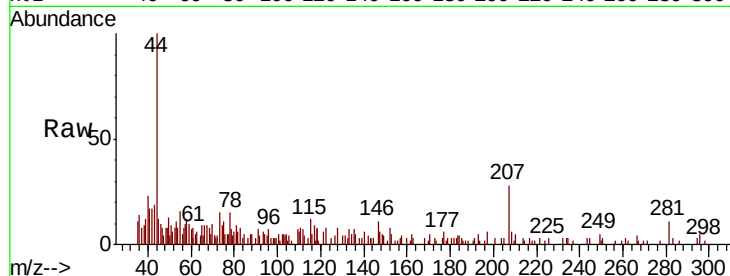
ClientSampled :

Tot Ion: 74 Resp: 443

Ion Ratio Lower Upper

74 100

45 108.6 50.8 152.5



#11

Tert butyl alcohol

Concen: 1.489 ug/l

RT: 3.01 min Scan# 316

Delta R.T. -0.01 min

Lab File: VX017594.D

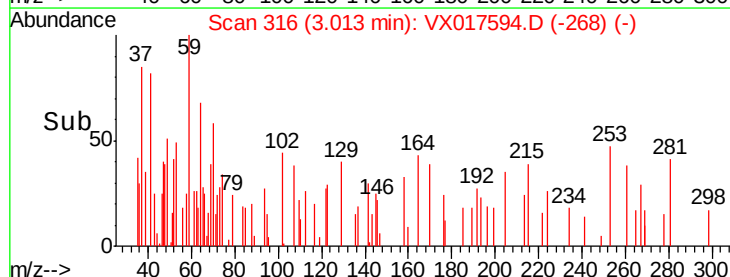
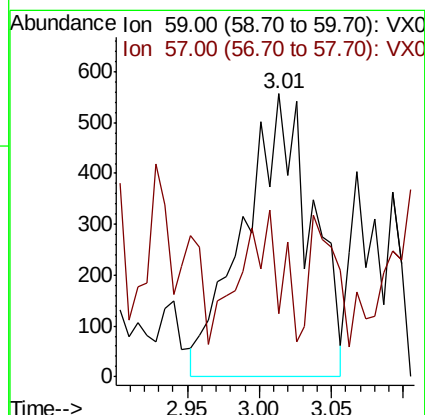
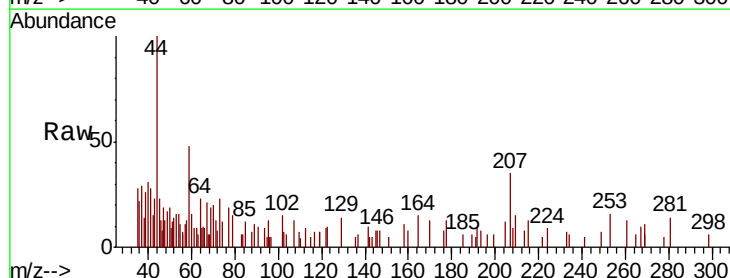
Acq: 25 Jul 2020 14:29

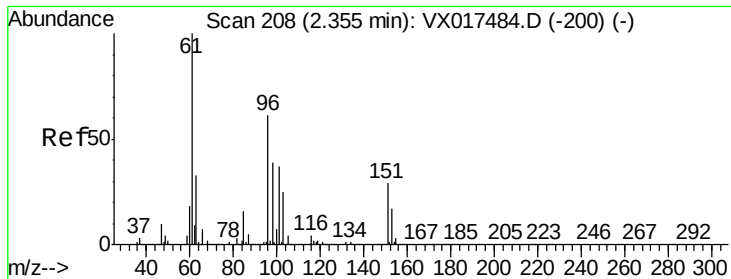
Tgt Ion: 59 Resp: 1808

Ion Ratio Lower Upper

59 100

57 37.0 8.6 12.8#





#12

1,1-Dichloroethene

Concen: 0.269 ug/l

RT: 2.37 min Scan# 210

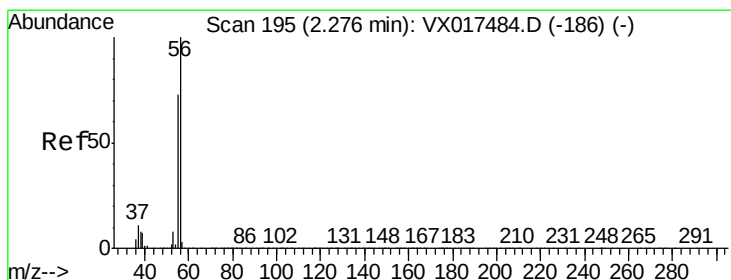
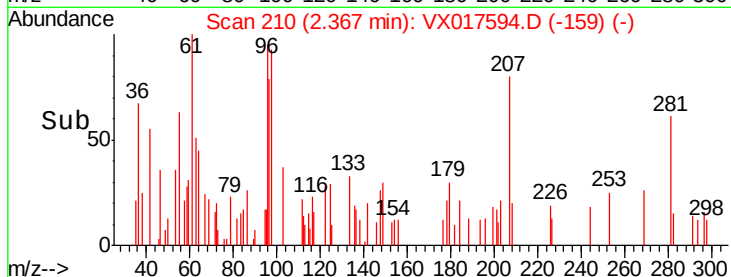
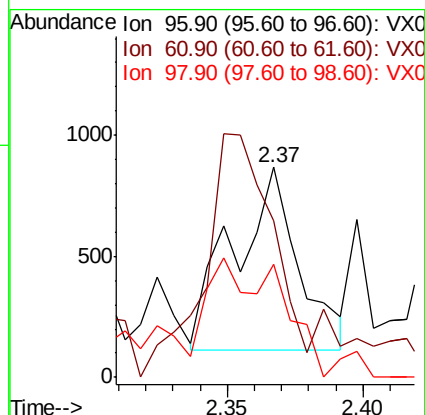
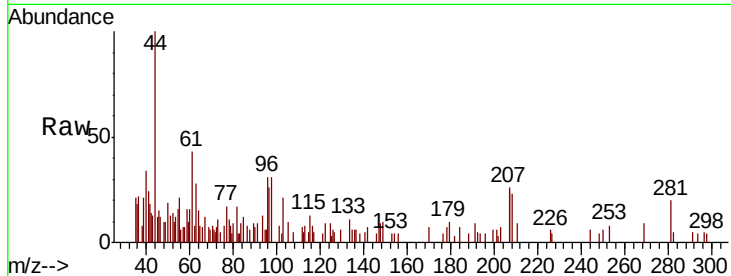
Delta R.T. 0.01 min

Lab File: VX017594.D

Acq: 25 Jul 2020 14:29

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 96 Resp: 1248
Ion Ratio Lower Upper
96 100
61 76.8 134.0 201.0#
98 57.7 51.0 76.4



#13

Acrolein

Concen: 5.076 ug/l

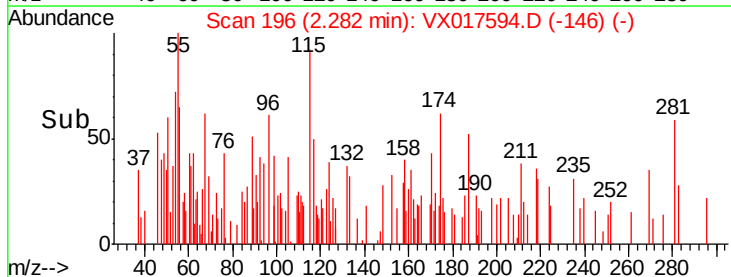
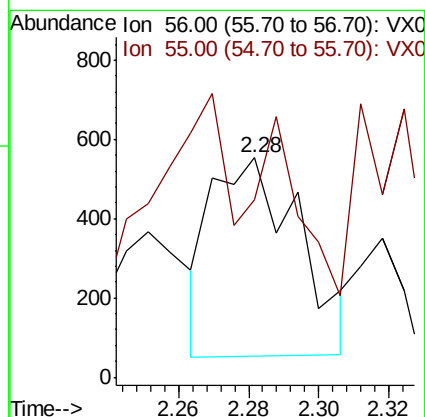
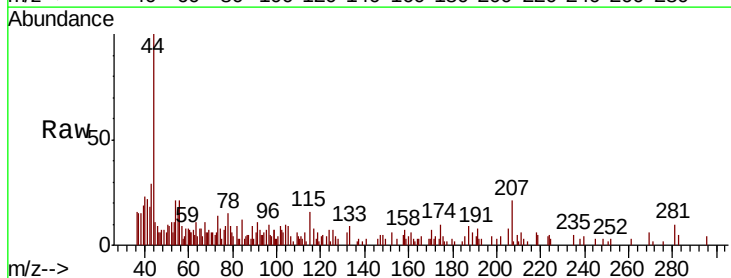
RT: 2.28 min Scan# 196

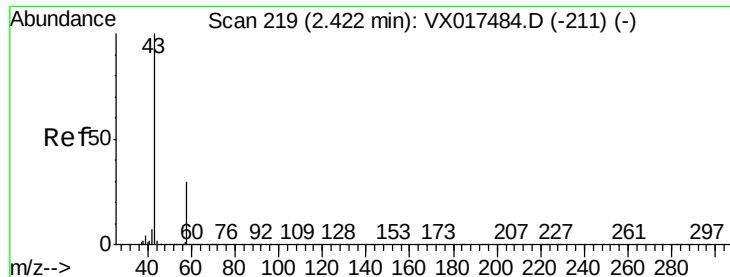
Delta R.T. 0.01 min

Lab File: VX017594.D

Acq: 25 Jul 2020 14:29

Tgt Ion: 56 Resp: 874
Ion Ratio Lower Upper
56 100
55 128.5 57.4 86.2#

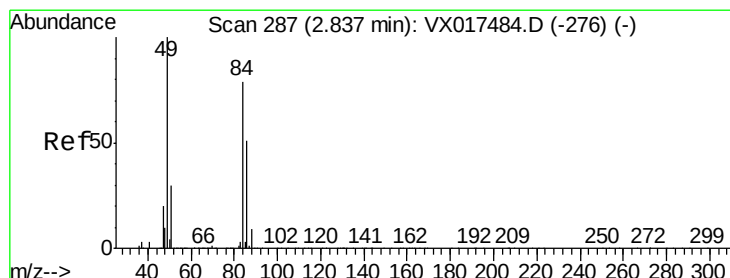
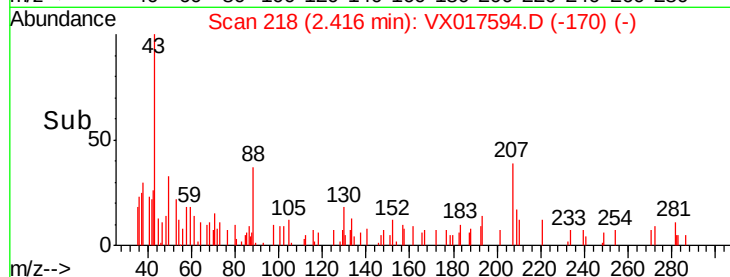
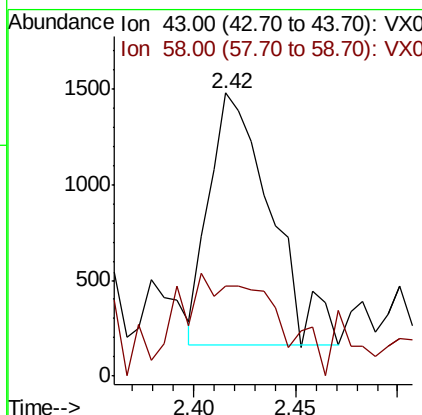
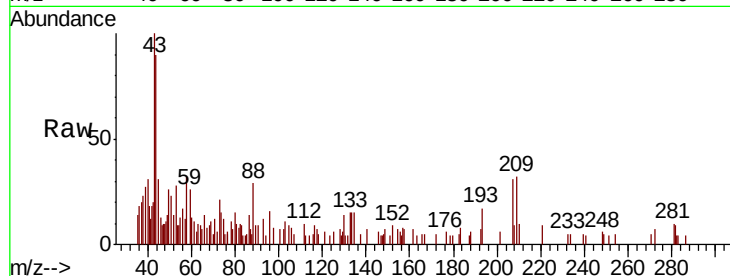




#16
Acetone
Concen: 1.080 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX017594.D
Acq: 25 Jul 2020 14:29

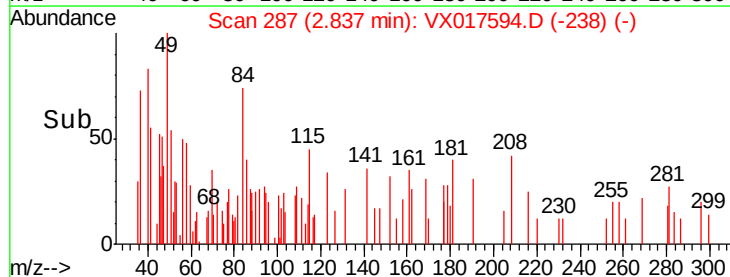
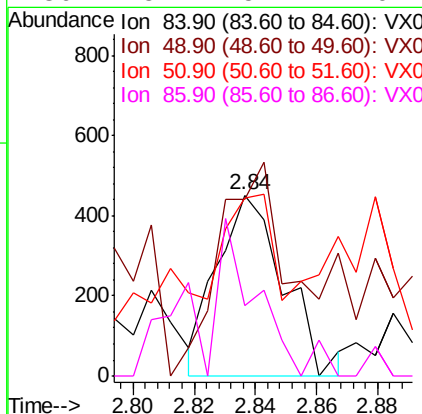
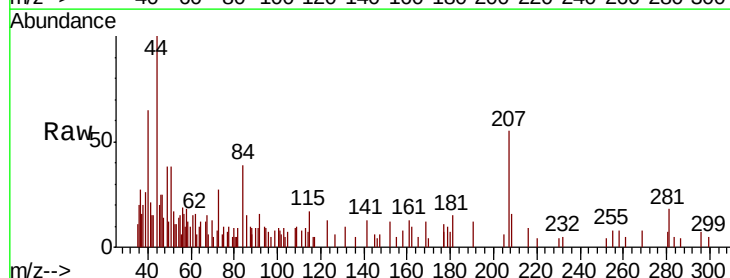
Instrument :
MSVOA_X
ClientSampleId :

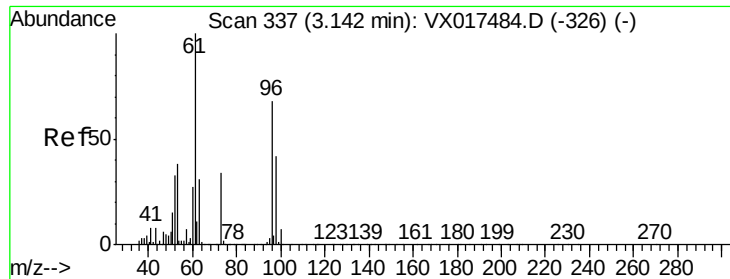
Tot Ion: 43 Resp: 2738
Ion Ratio Lower Upper
43 100
58 16.3 24.2 36.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017594.D
Acq: 25 Jul 2020 14:29

Tgt Ion: 84 Resp: 685
Ion Ratio Lower Upper
84 100
49 94.9 100.3 150.5#
51 60.3 30.5 45.7#
86 45.1 51.1 76.7#





#21

trans-1,2-Dichloroethene

Concen: 0.494 ug/l

RT: 3.16 min Scan# 340

Delta R.T. 0.02 min

Lab File: VX017594.D

Acq: 25 Jul 2020 14:29

Instrument :
MSVOA_X
ClientSampled :

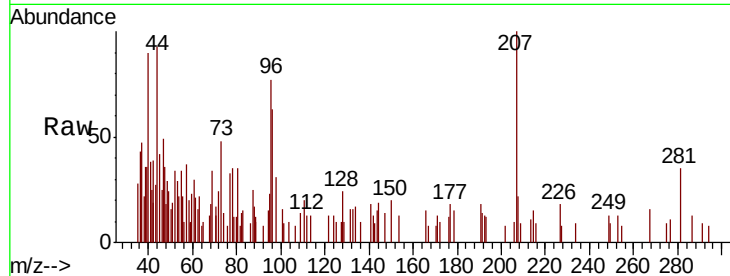
Tot Ion: 96 Resp: 2450

Ion Ratio Lower Upper

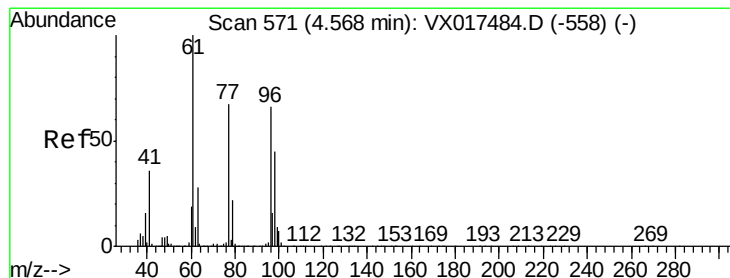
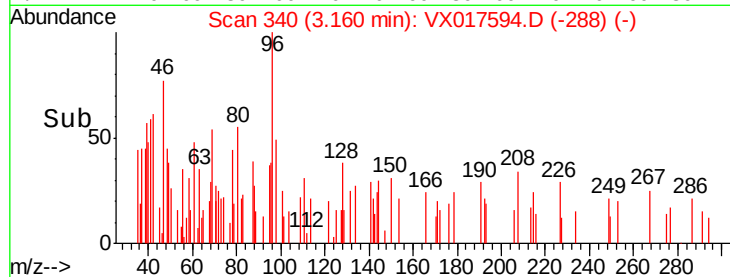
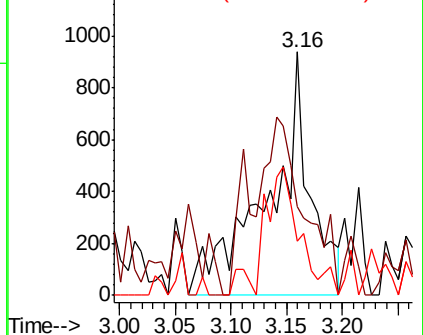
96 100

61 24.1 113.0 169.4#

98 22.1 51.8 77.8#



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 2.523 ug/l

RT: 4.57 min Scan# 572

Delta R.T. 0.01 min

Lab File: VX017594.D

Acq: 25 Jul 2020 14:29

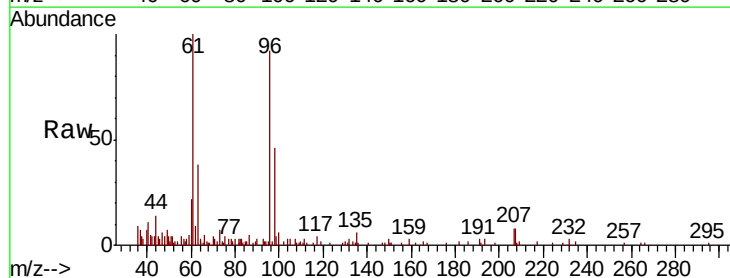
Tgt Ion: 96 Resp: 13598

Ion Ratio Lower Upper

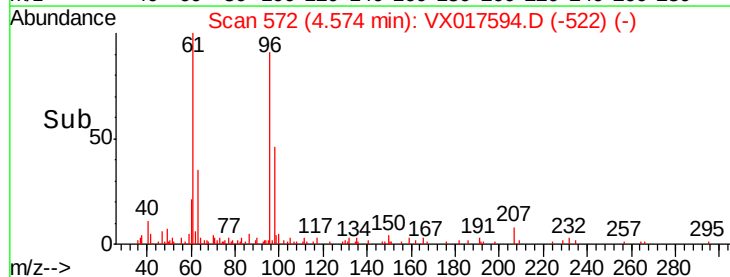
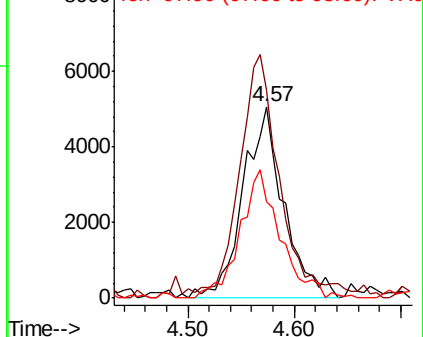
96 100

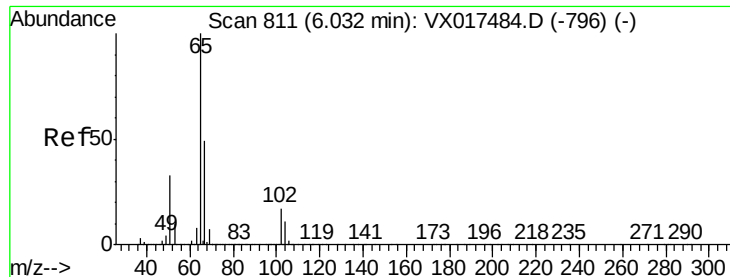
61 126.0 0.0 301.2

98 66.4 0.0 130.0



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 54.327 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017594.D

Acq: 25 Jul 2020 14:29

Instrument :

MSVOA_X

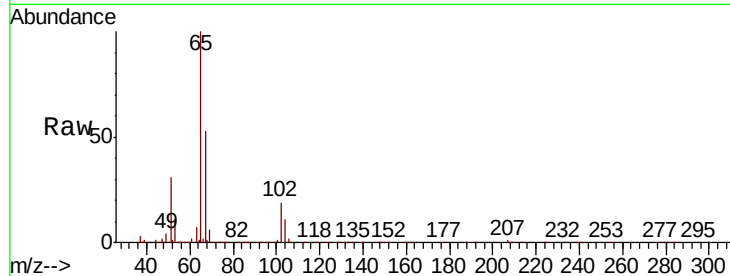
ClientSampled :

Tot Ion: 65 Resp: 312898

Ion Ratio Lower Upper

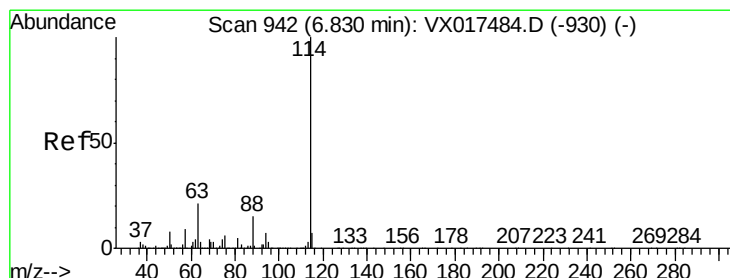
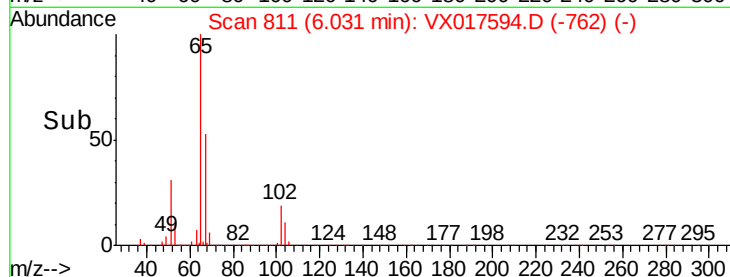
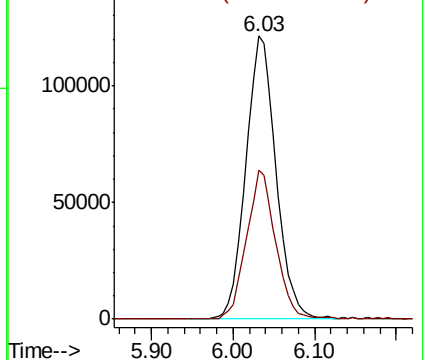
65 100

67 50.4 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017594.D

Acq: 25 Jul 2020 14:29

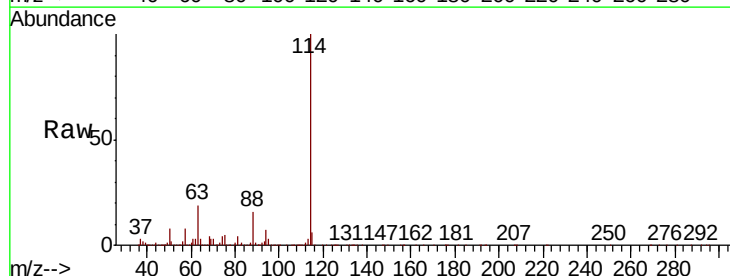
Tgt Ion: 114 Resp: 751786

Ion Ratio Lower Upper

114 100

63 19.3 0.0 40.6

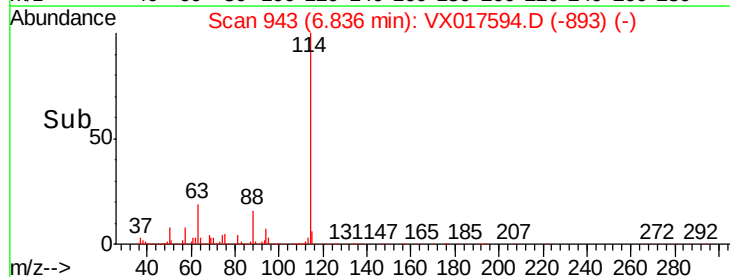
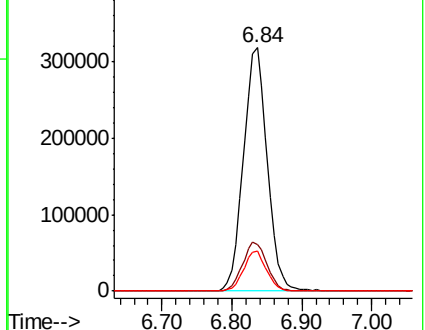
88 16.2 0.0 33.4

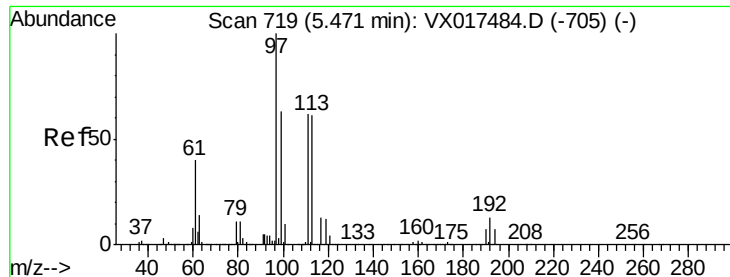


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

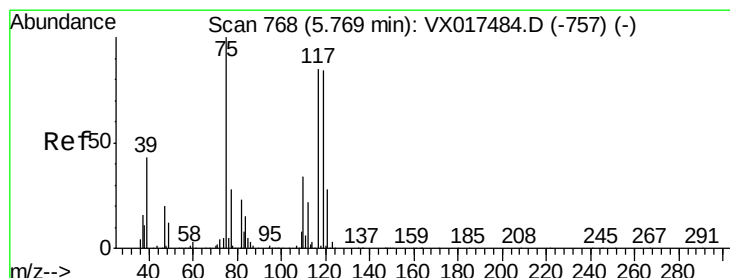
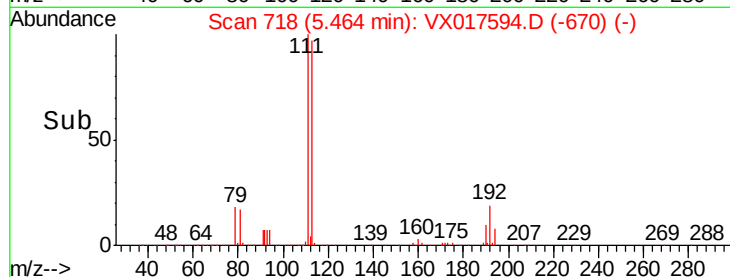
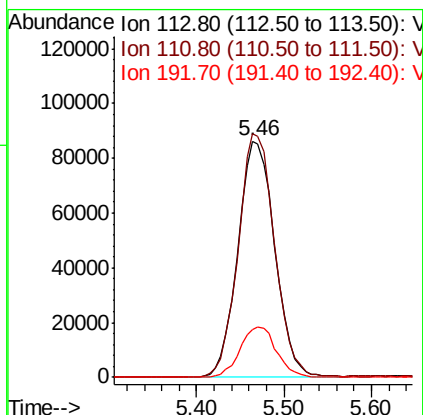
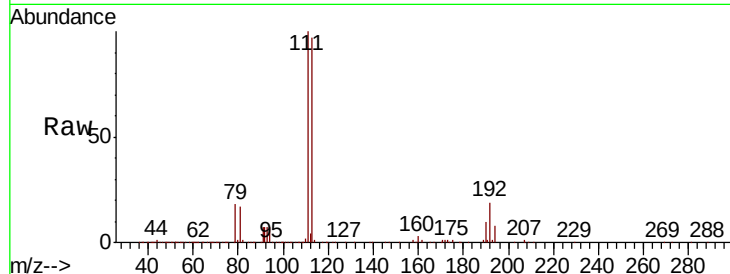




#35
 Dibromofluoromethane
 Concen: 50.430 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. -0.01 min
 Lab File: VX017594.D
 Acq: 25 Jul 2020 14:29

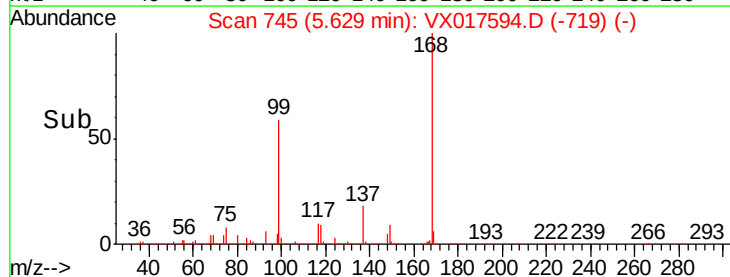
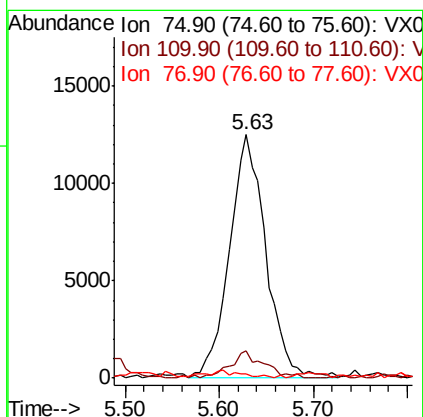
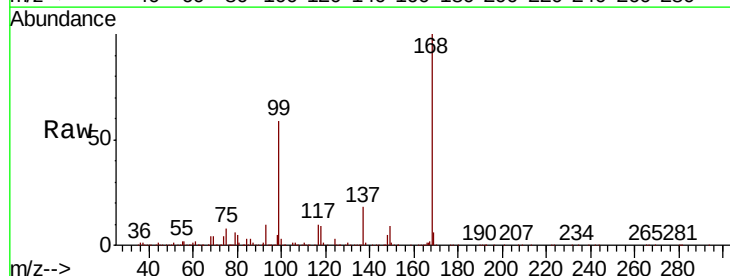
Instrument :
 MSVOA_X
 ClientSampleId :

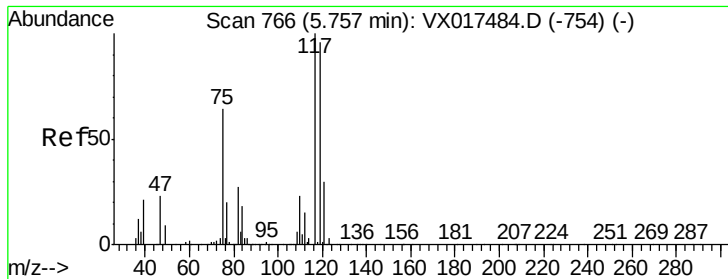
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.5	80.7	121.1
192	21.3	16.9	25.3



#36
 1,1-Dichloropropene
 Concen: 4.675 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017594.D
 Acq: 25 Jul 2020 14:29

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.4	18.1	54.3#
77	0.0	24.6	37.0#





#38

Carbon Tetrachloride

Concen: 5.050 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX017594.D

Acq: 25 Jul 2020 14:29

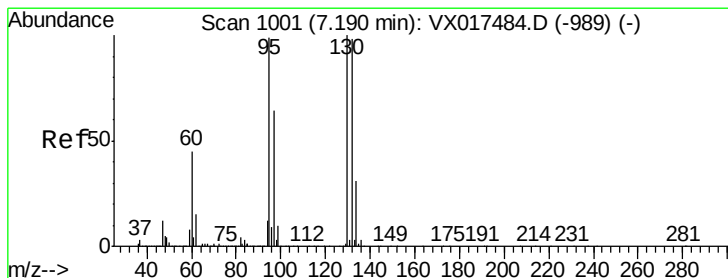
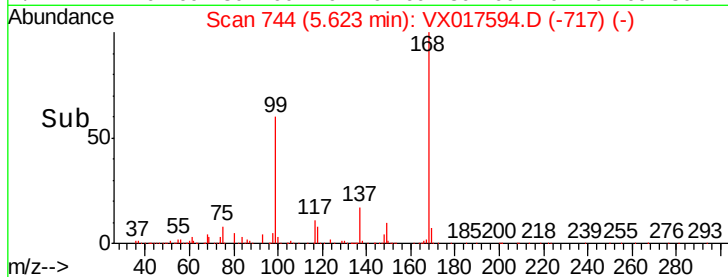
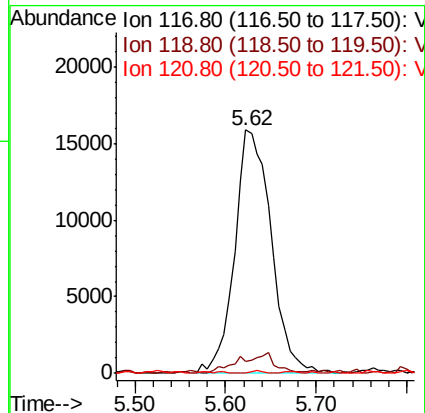
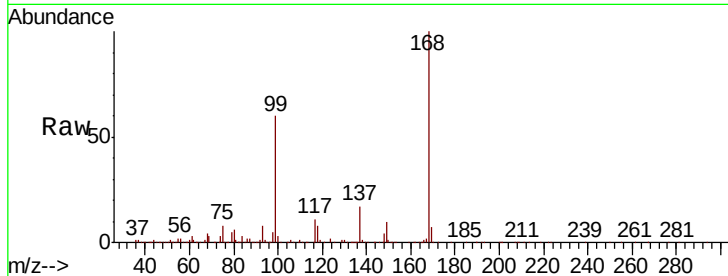
Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:117 Resp: 44220

Ion	Ratio	Lower	Upper
117	100		
119	3.7	75.4	113.0#
121	0.4	24.3	36.5#



#44

Trichloroethene

Concen: 0.371 ug/l

RT: 7.20 min Scan# 1003

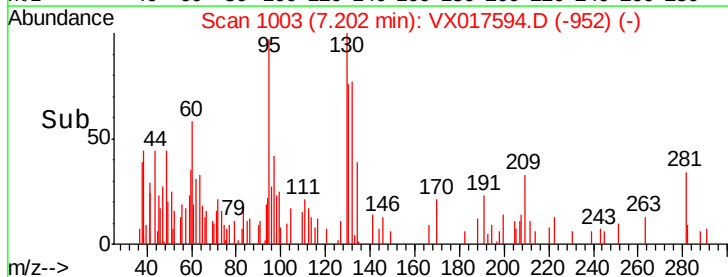
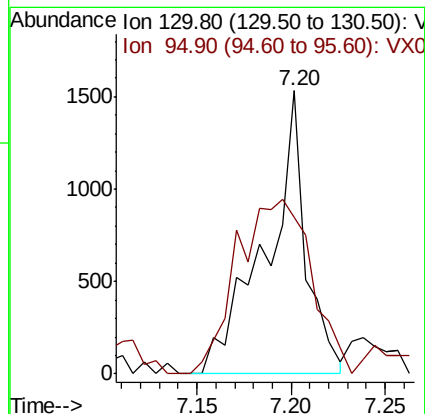
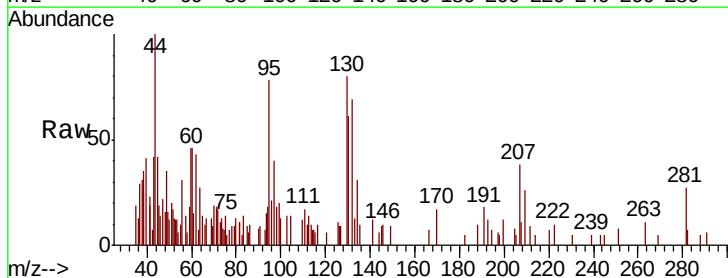
Delta R.T. 0.01 min

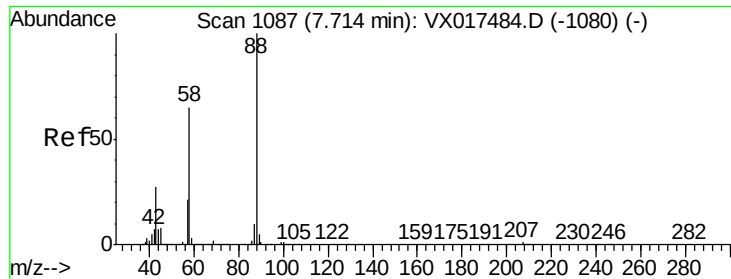
Lab File: VX017594.D

Acq: 25 Jul 2020 14:29

Tgt Ion:130 Resp: 2243

Ion	Ratio	Lower	Upper
130	100		
95	55.3	0.0	189.0





#49

1,4-Dioxane

Concen: 1.132 ug/l

RT: 7.73 min Scan# 1090

Delta R.T. 0.02 min

Lab File: VX017594.D

Acq: 25 Jul 2020 14:29

Instrument :

MSVOA_X

ClientSampled :

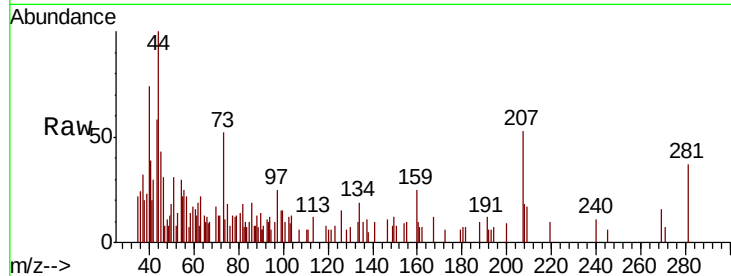
Tot Ion: 88 Resp: 140

Ion Ratio Lower Upper

88 100

43 350.0 27.8 41.6#

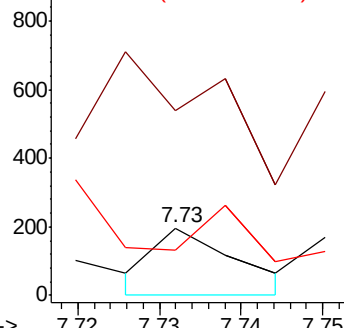
58 105.7 58.3 87.5#



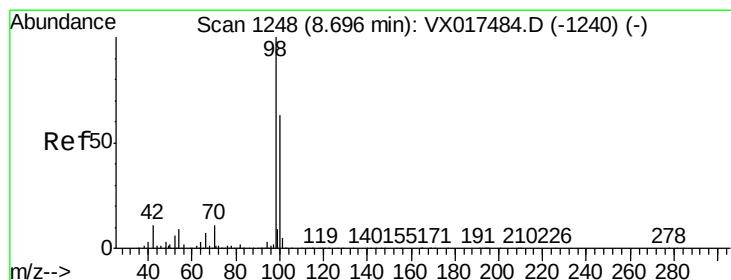
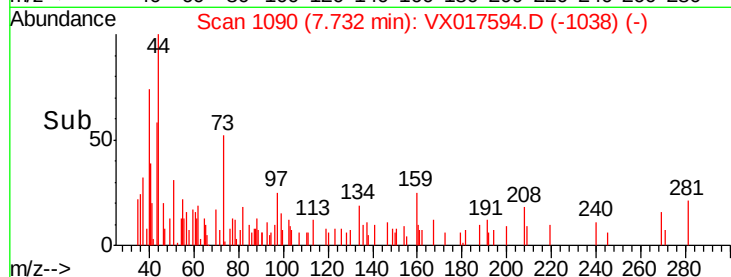
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#50

Toluene-d8

Concen: 51.228 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017594.D

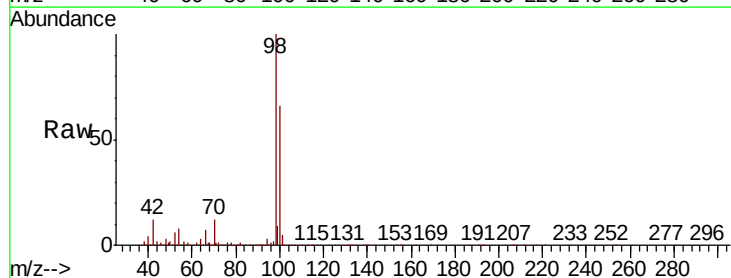
Acq: 25 Jul 2020 14:29

Tgt Ion: 98 Resp: 929187

Ion Ratio Lower Upper

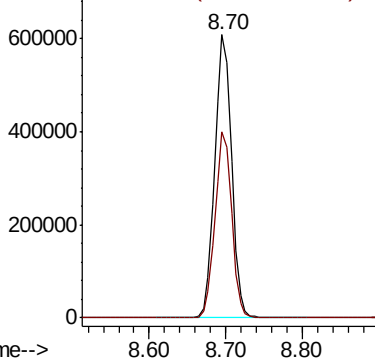
98 100

100 65.1 52.3 78.5

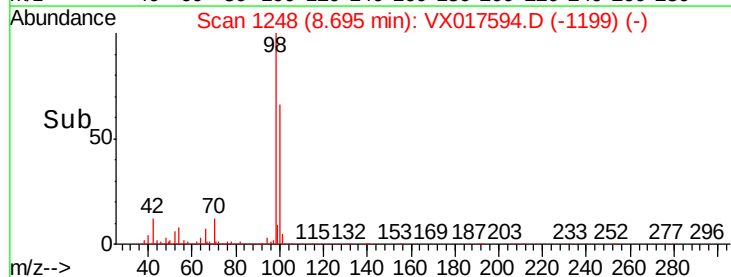


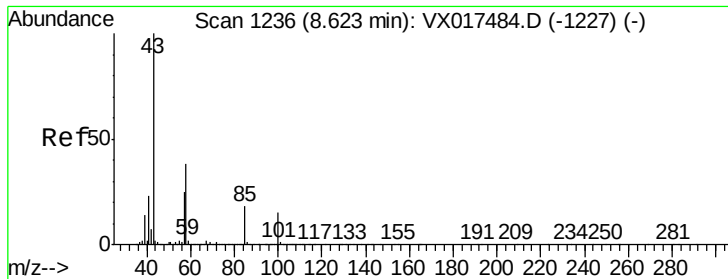
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.587 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.07 min

Lab File: VX017594.D

Acq: 25 Jul 2020 14:29

Instrument :

MSVOA_X

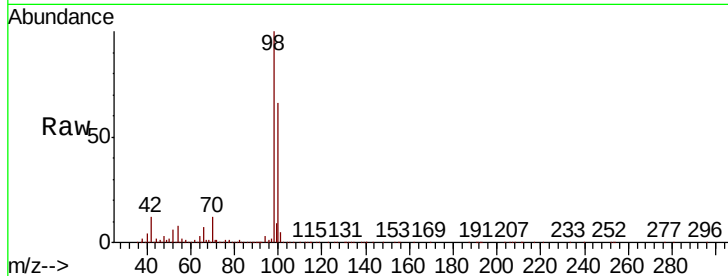
ClientSampled :

Tot Ion: 43 Resp: 4561

Ion Ratio Lower Upper

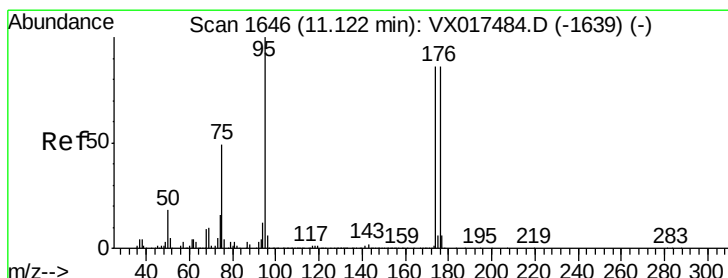
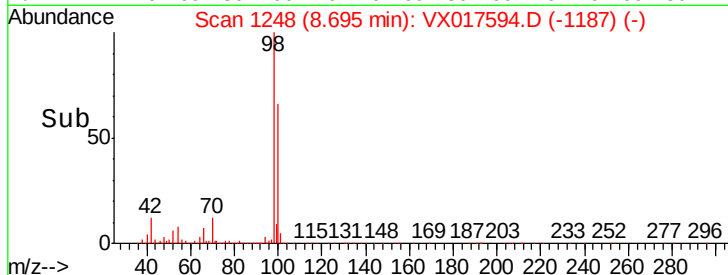
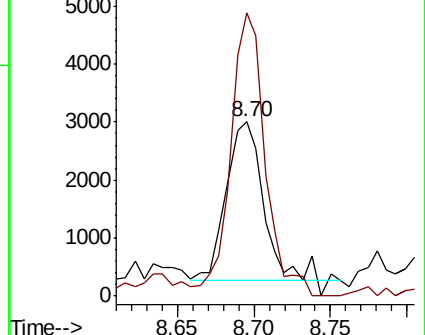
43 100

58 167.2 31.0 46.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 55.082 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017594.D

Acq: 25 Jul 2020 14:29

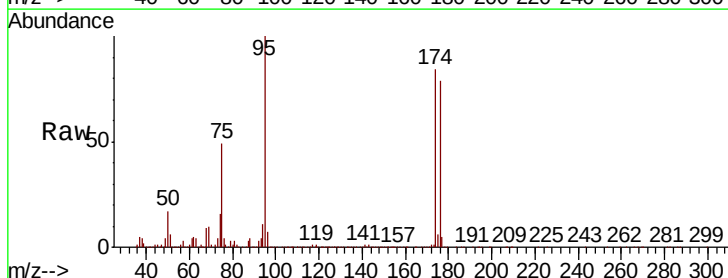
Tgt Ion: 95 Resp: 399838

Ion Ratio Lower Upper

95 100

174 84.7 0.0 169.0

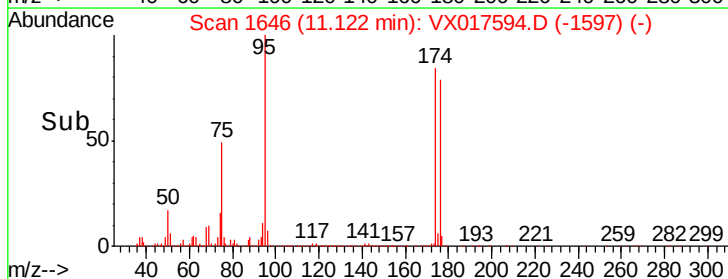
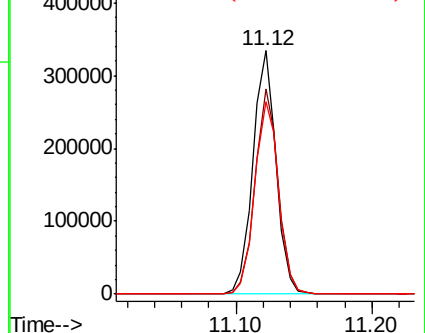
176 82.0 0.0 161.0

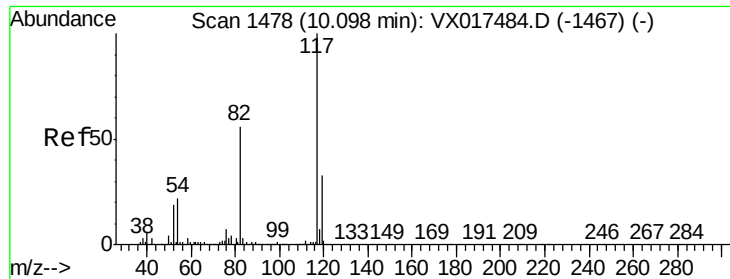


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

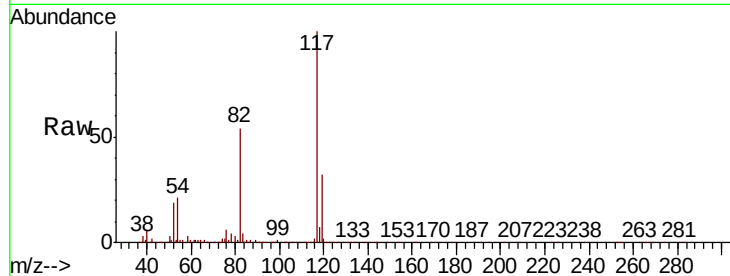




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017594.D
Acq: 25 Jul 2020 14:29

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.8	44.0	66.0
119	32.3	25.4	38.0

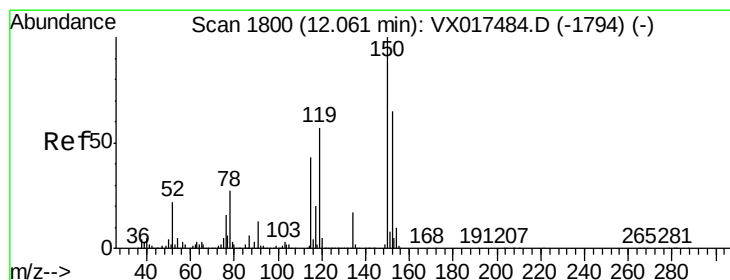
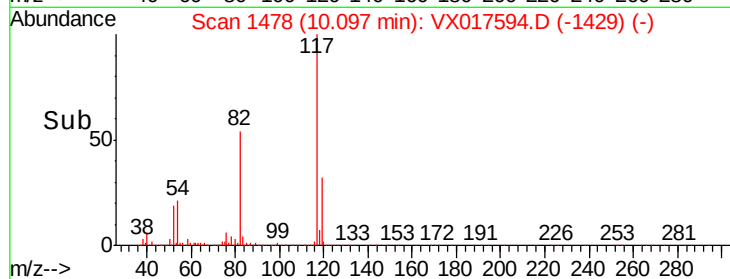
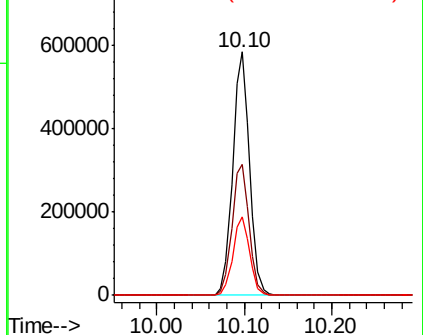


Abundance

Ion 116.90 (116.60 to 117.60): V

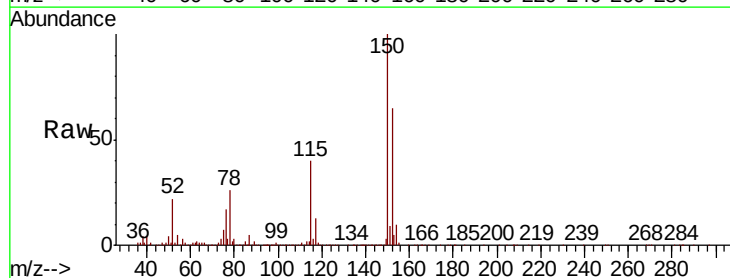
Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017594.D
Acq: 25 Jul 2020 14:29

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.9	65.5	196.6#
150	155.4	0.0	412.6

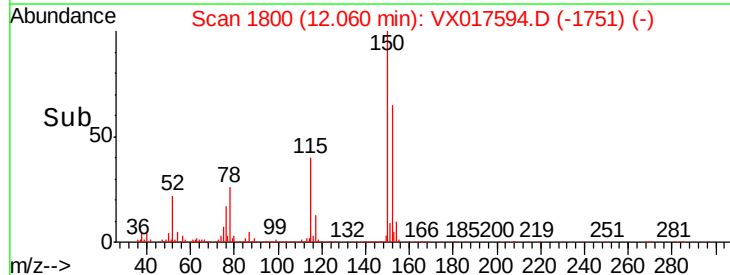
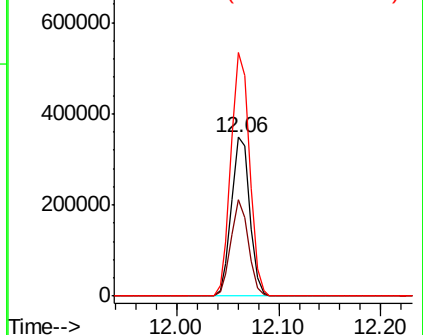


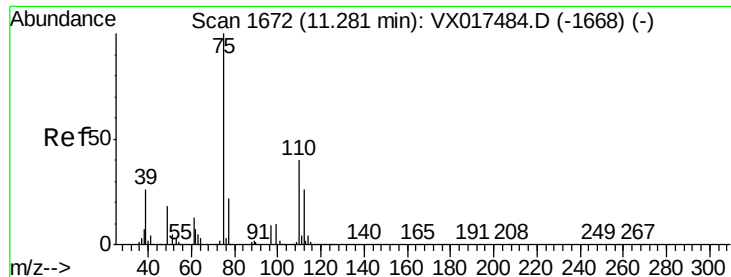
Abundance

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: 22.907 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017594.D

Acq: 25 Jul 2020 14:29

Instrument :

MSVOA_X

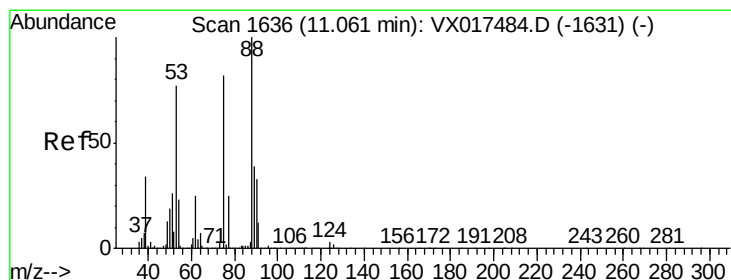
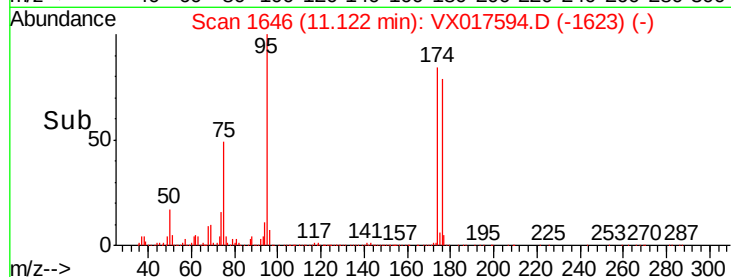
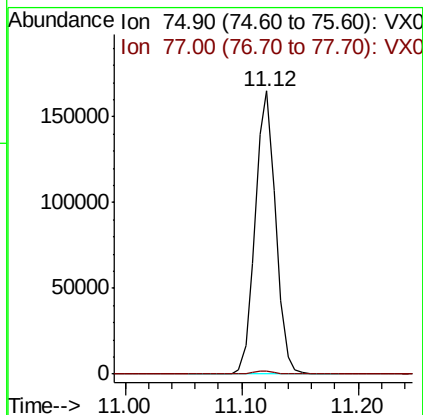
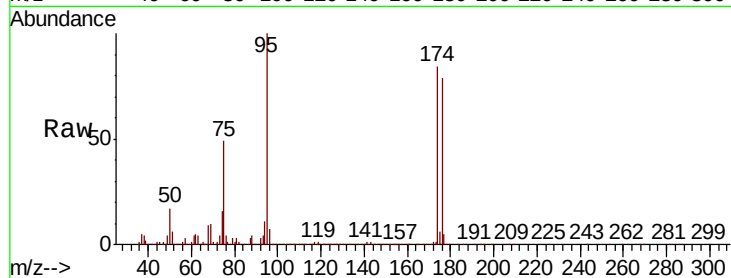
ClientSampleId :

Tot Ion: 75 Resp: 202282

Ion Ratio Lower Upper

75 100

77 1.6 21.8 65.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.721 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017594.D

Acq: 25 Jul 2020 14:29

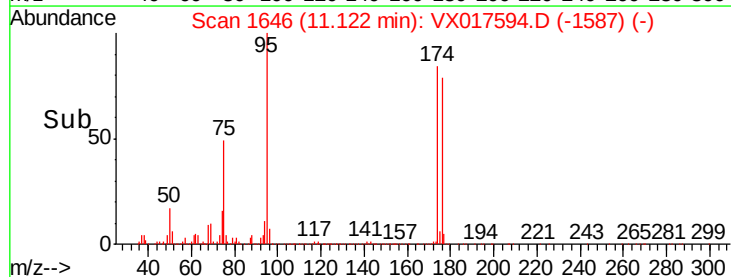
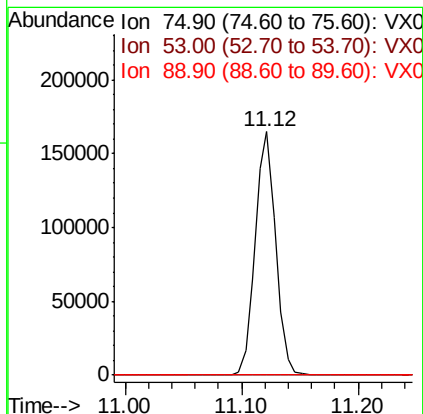
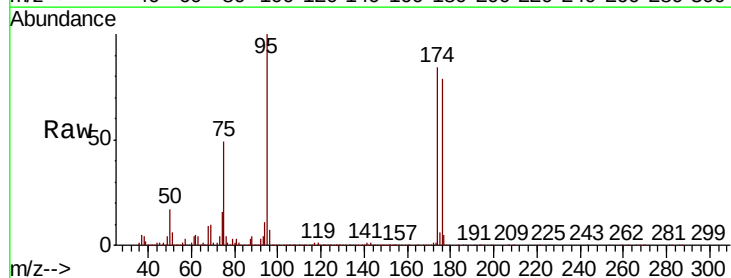
Tgt Ion: 75 Resp: 202282

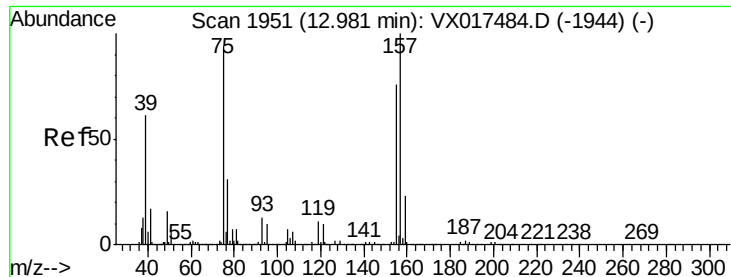
Ion Ratio Lower Upper

75 100

53 0.1 75.9 113.9#

89 0.1 37.8 56.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.719 ug/l

RT: 12.99 min Scan# 1953

Delta R.T. 0.01 min

Lab File: VX017594.D

Acq: 25 Jul 2020 14:29

Instrument :

MSVOA_X

ClientSampleId :

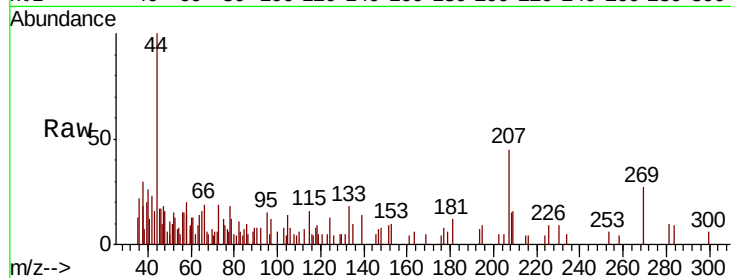
Tot Ion: 75 Resp: 391

Ion Ratio Lower Upper

75 100

155 0.0 42.3 126.8#

157 6.4 54.3 162.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

