

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080420\
 Data File : VX017781.D
 Acq On : 04 Aug 2020 19:37
 Operator : JC/SP
 Sample : L3548-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 05 01:52:37 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	5.64	168	565440	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	824678	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	859782	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	404257	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	355246	48.91	ug/l	0.00
Spiked Amount			Recovery	=	97.82%	
35) Dibromofluoromethane	5.47	113	275396	49.93	ug/l	0.00
Spiked Amount			Recovery	=	99.86%	
50) Toluene-d8	8.70	98	1037453	52.14	ug/l	0.00
Spiked Amount			Recovery	=	104.28%	
62) 4-Bromofluorobenzene	11.12	95	393734	49.45	ug/l	0.00
Spiked Amount			Recovery	=	98.90%	

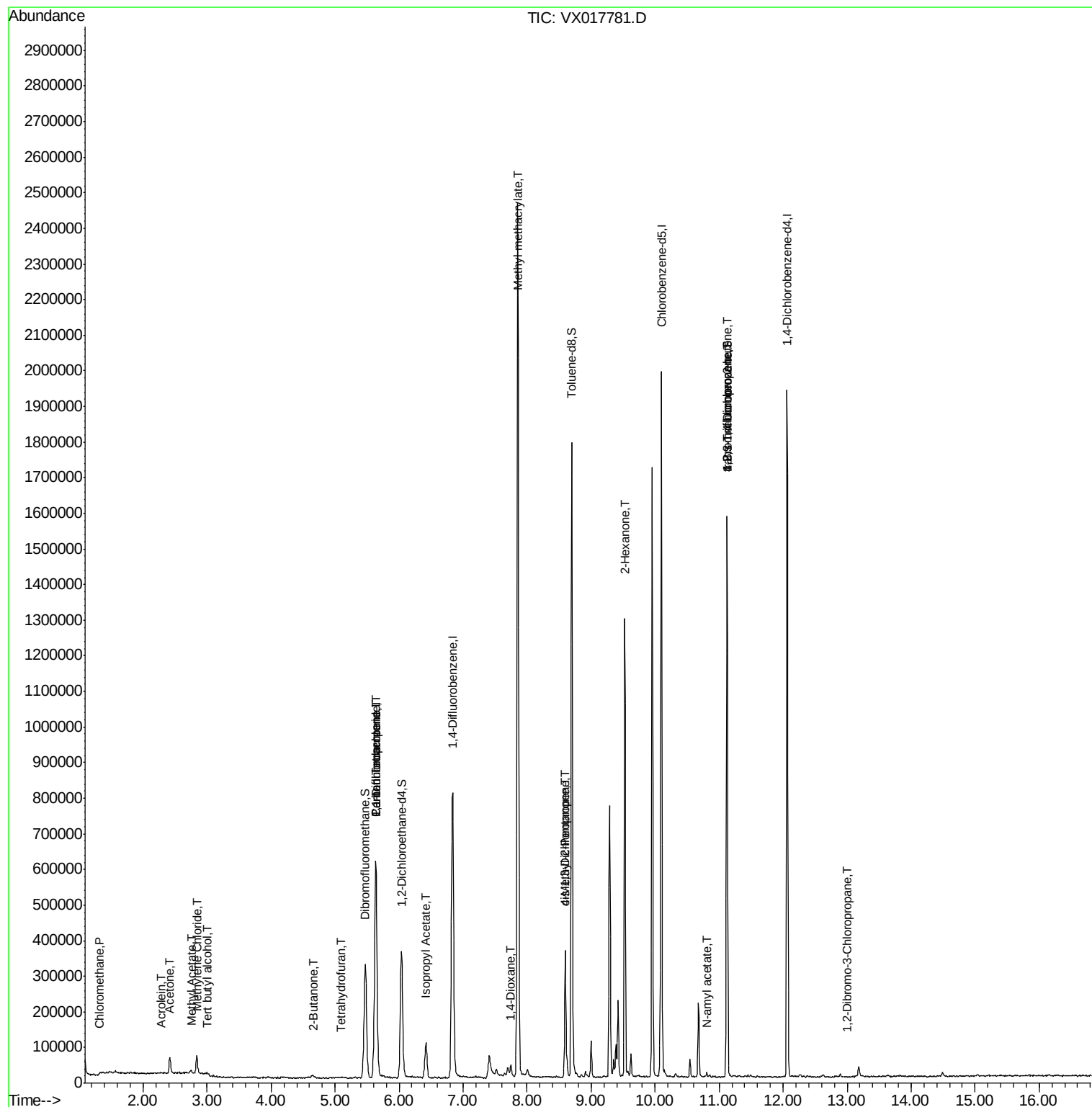
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	191	Below Cal	#	60
3) Chloromethane	1.31	50	984	0.507	ug/l #	67
5) Bromomethane	1.61	94	179	Below Cal	#	1
6) Chloroethane	1.72	64	255	Below Cal	#	44
8) Diethyl Ether	2.17	74	1545	Below Cal		52
11) Tert butyl alcohol	3.00	59	2667	1.742	ug/l #	73
13) Acrolein	2.28	56	818	4.837	ug/l #	82
16) Acetone	2.42	43	48750	15.249	ug/l	97
18) Methyl Acetate	2.75	43	9870	1.311	ug/l	98
20) Methylene Chloride	2.84	84	24412	2.843	ug/l	87
25) 2-Butanone	4.65	43	10434	2.298	ug/l	92
29) Tetrahydrofuran	5.10	42	936	0.333	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	42774	5.408	ug/l #	51
38) Carbon Tetrachloride	5.64	117	56974	5.932	ug/l #	16
43) Isopropyl Acetate	6.42	43	138112	9.673	ug/l	99
48) Methyl methacrylate	7.85	41	214023	30.238	ug/l #	46
49) 1,4-Dioxane	7.74	88	297	2.189	ug/l #	1
51) 4-Methyl-2-Pentanone	8.60	43	137248	16.110	ug/l #	46
54) cis-1,3-Dichloropropene	8.60	75	53749	5.266	ug/l #	61
59) 2-Hexanone	9.52	43	146214	22.795	ug/l #	53
74) N-amyl acetate	10.81	43	6644	0.539	ug/l #	51
76) 1,2,3-Trichloropropane	11.12	75	200726	24.138	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	200726	60.823	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.99	75	74	2.605	ug/l #	1

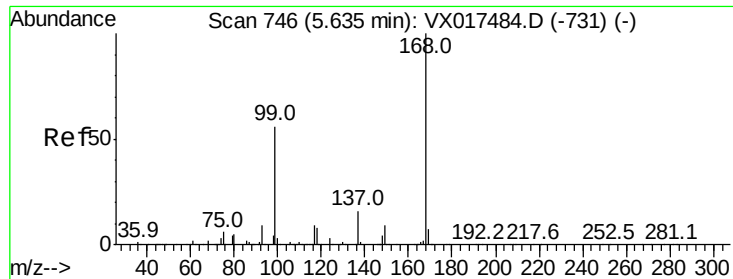
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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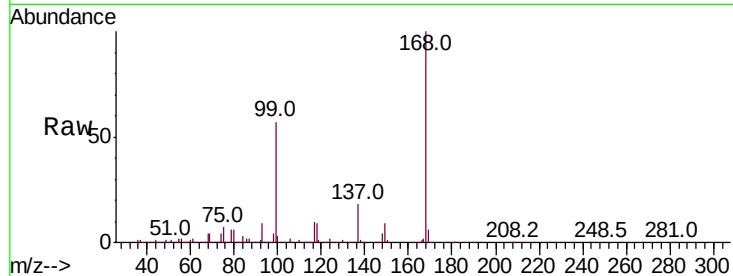


#1

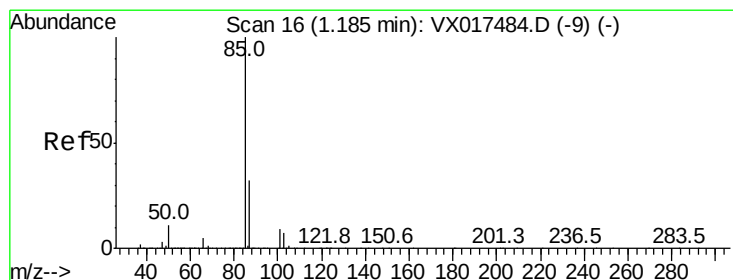
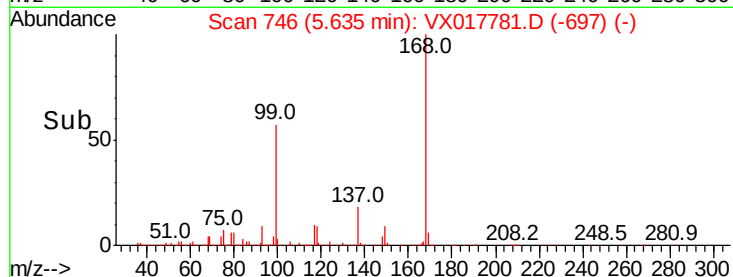
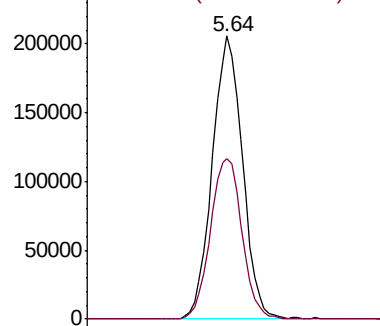
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. 0.00 min
 Lab File: VX017781.D
 Acq: 04 Aug 2020 19:37

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:168 Resp: 565440
 Ion Ratio Lower Upper
 168 100
 99 56.8 43.4 65.2



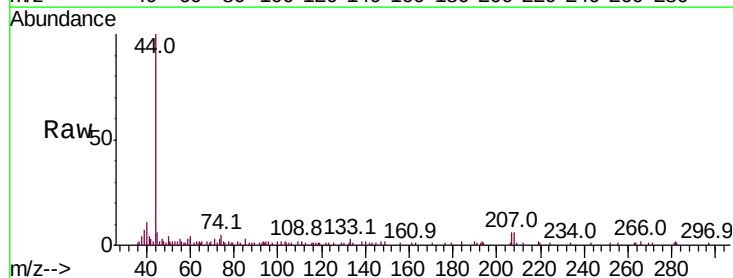
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.90 (98.60 to 99.60): VX0



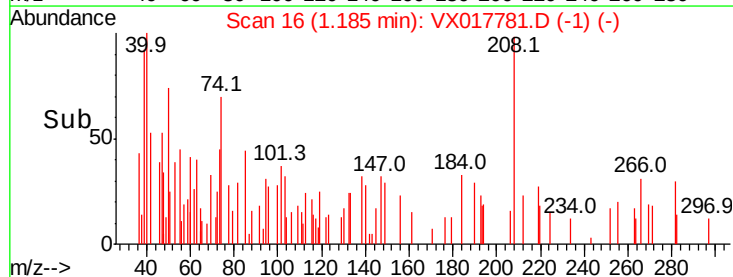
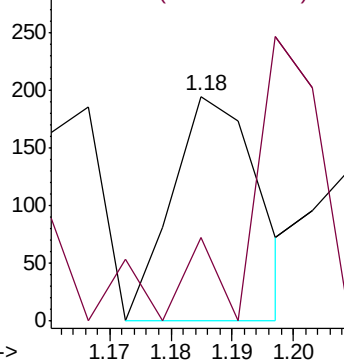
#2

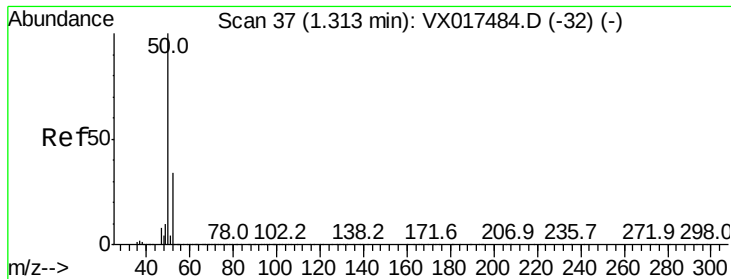
Dichlorodifluoromethane
 Concen: Below Cal
 RT: 1.18 min Scan# 16
 Delta R.T. 0.00 min
 Lab File: VX017781.D
 Acq: 04 Aug 2020 19:37

Tgt Ion: 85 Resp: 191
 Ion Ratio Lower Upper
 85 100
 87 9.7 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: 0.507 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX017781.D

Acq: 04 Aug 2020 19:37

Instrument :

MSVOA_X

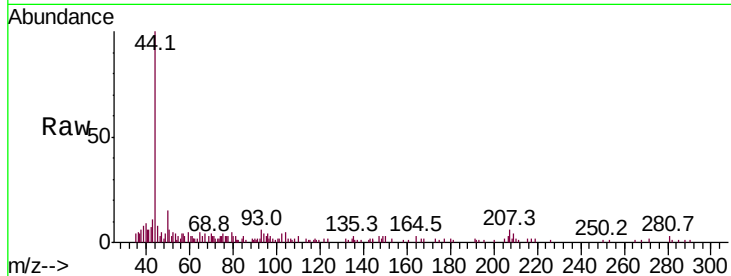
ClientSampled :

Tot Ion: 50 Resp: 984

Ion Ratio Lower Upper

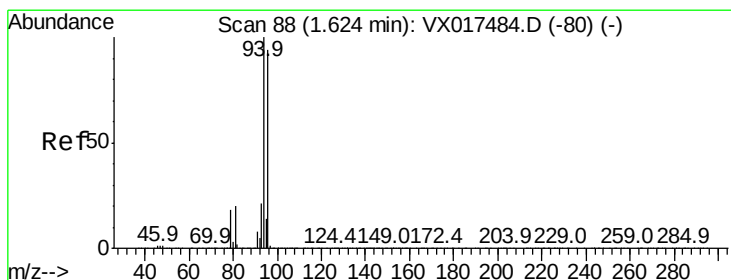
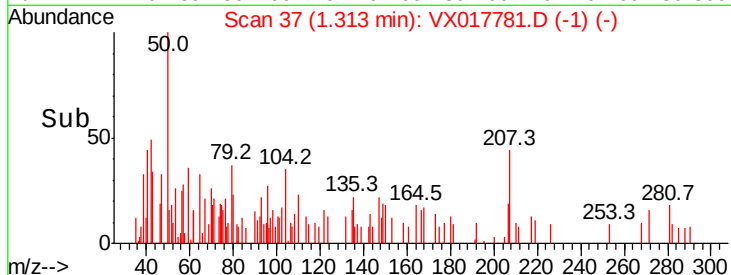
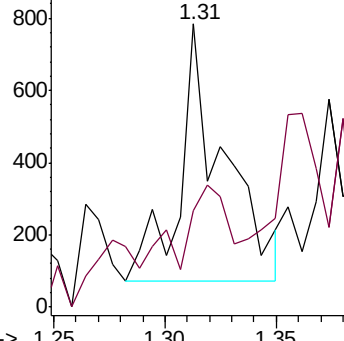
50 100

52 14.0 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 86

Delta R.T. -0.01 min

Lab File: VX017781.D

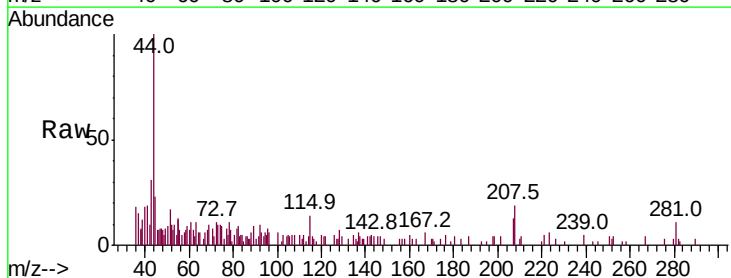
Acq: 04 Aug 2020 19:37

Tgt Ion: 94 Resp: 179

Ion Ratio Lower Upper

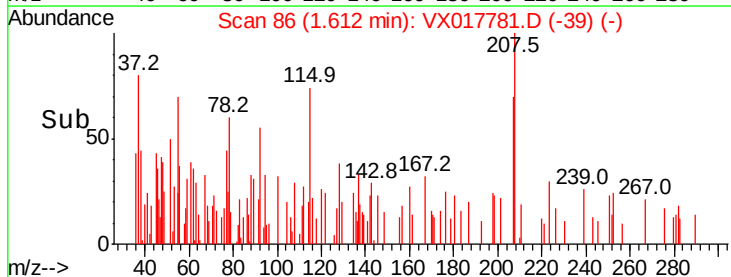
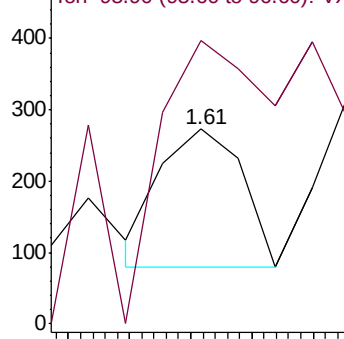
94 100

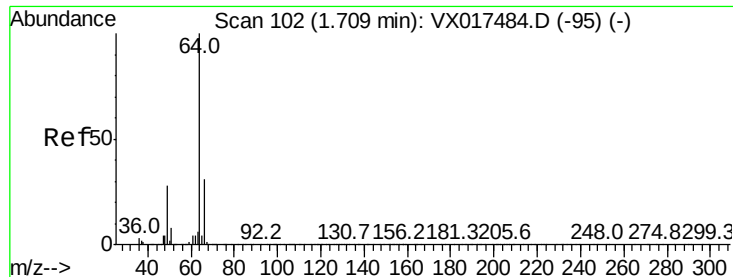
96 205.7 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 104

Delta R.T. 0.01 min

Lab File: VX017781.D

Acq: 04 Aug 2020 19:37

Instrument :

MSVOA_X

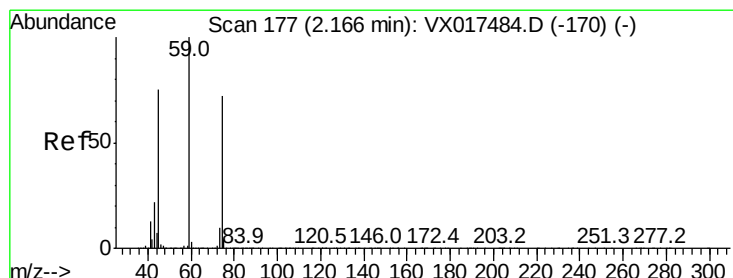
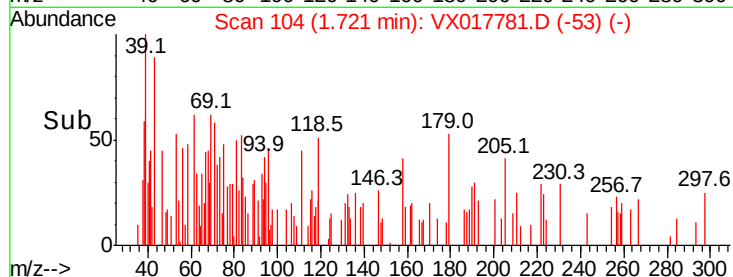
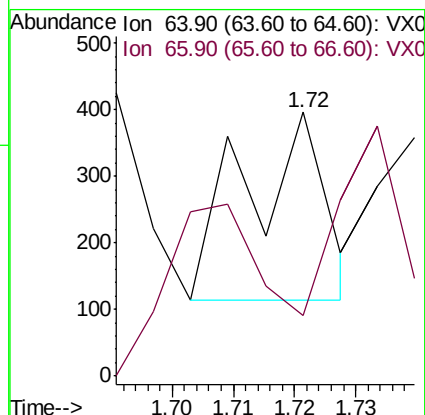
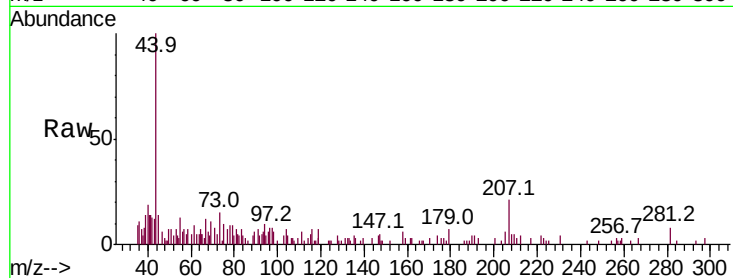
ClientSampled :

Tot Ion: 64 Resp: 255

Ion Ratio Lower Upper

64 100

66 0.0 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.17 min Scan# 177

Delta R.T. 0.00 min

Lab File: VX017781.D

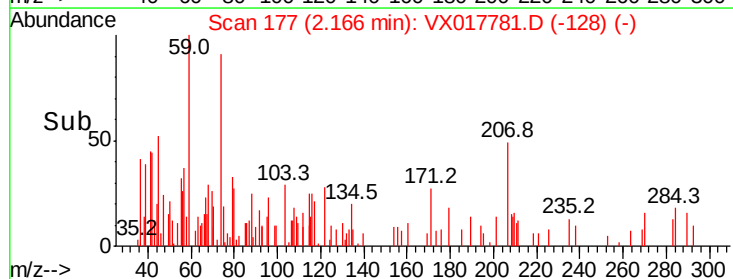
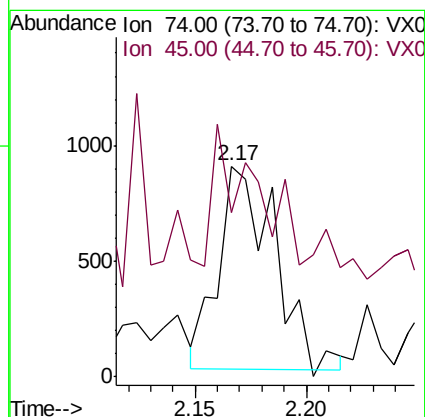
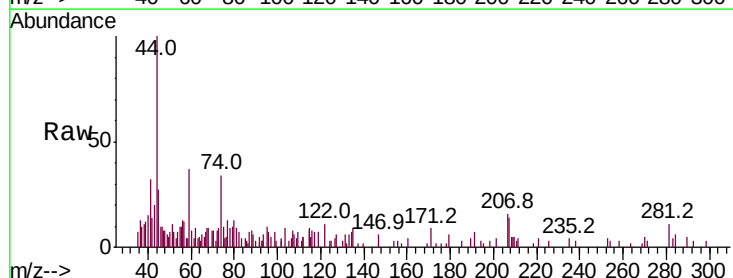
Acq: 04 Aug 2020 19:37

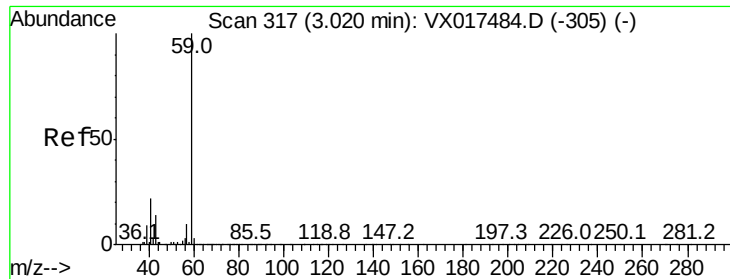
Tgt Ion: 74 Resp: 1545

Ion Ratio Lower Upper

74 100

45 53.0 50.8 152.5



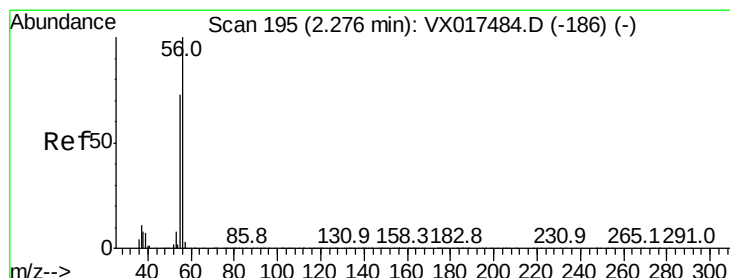
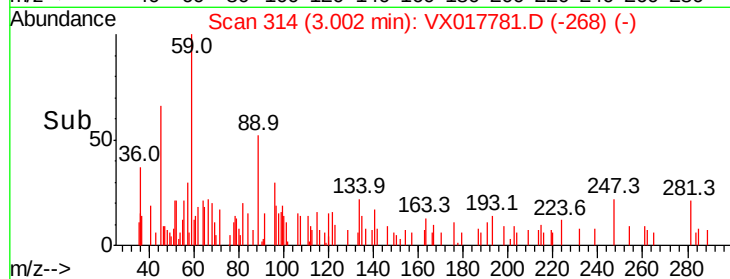
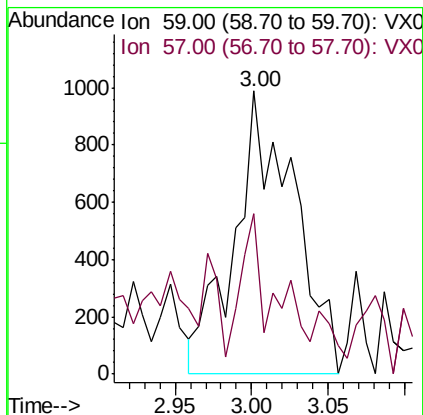
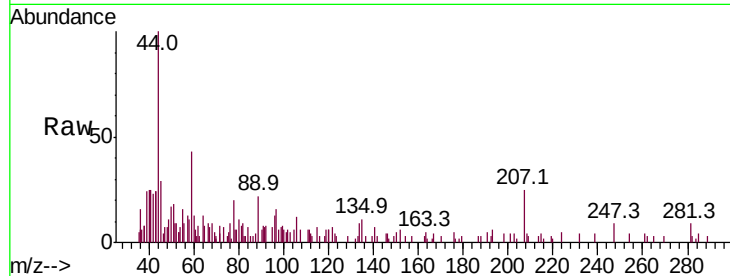


#11

Tert butyl alcohol
 Concen: 1.742 ug/l
 RT: 3.00 min Scan# 314
 Delta R.T. -0.02 min
 Lab File: VX017781.D
 Acq: 04 Aug 2020 19:37

Instrument :
 MSVOA_X
 ClientSampled :

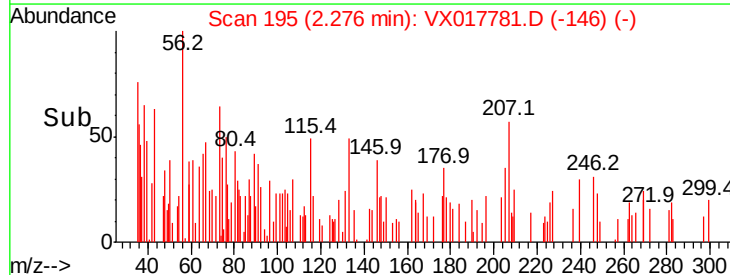
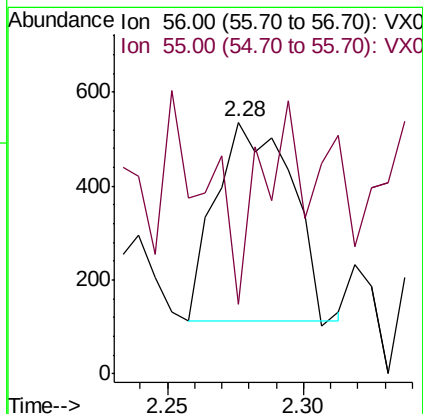
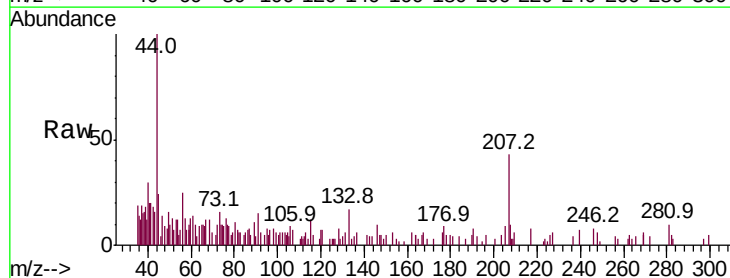
Tot Ion: 59 Resp: 2667
 Ion Ratio Lower Upper
 59 100
 57 20.8 8.6 12.8#

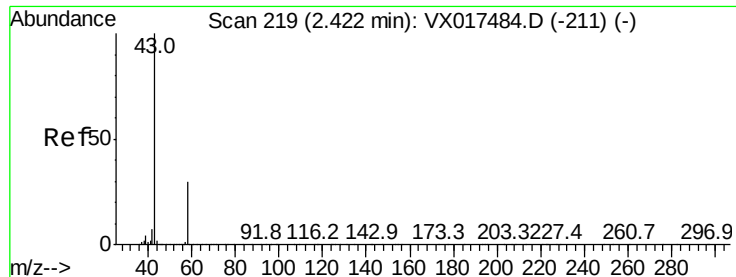


#13

Acrolein
 Concen: 4.837 ug/l
 RT: 2.28 min Scan# 195
 Delta R.T. 0.00 min
 Lab File: VX017781.D
 Acq: 04 Aug 2020 19:37

Tgt Ion: 56 Resp: 818
 Ion Ratio Lower Upper
 56 100
 55 87.2 57.4 86.2#

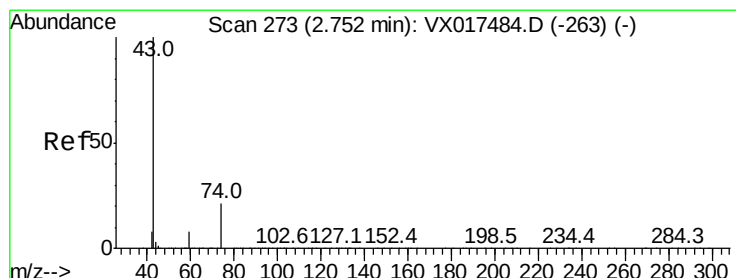
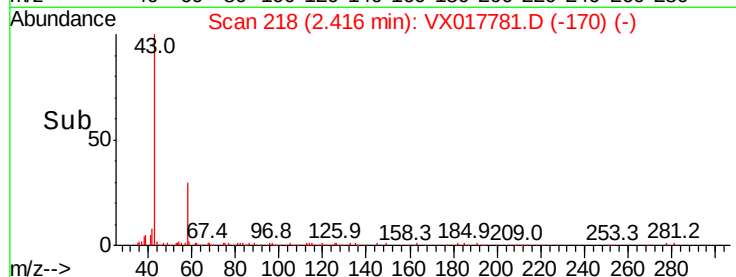
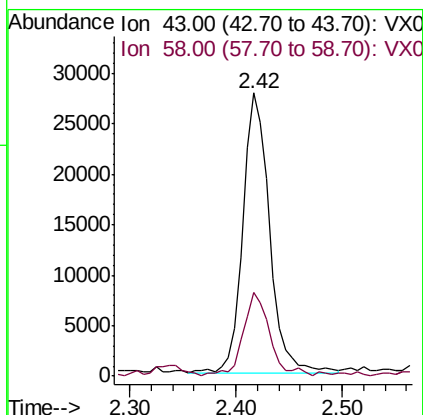
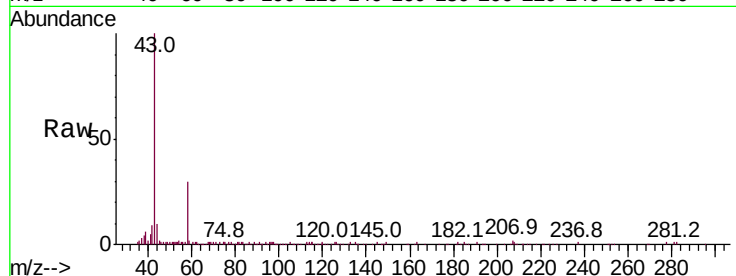




#16
Acetone
Concen: 15.249 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX017781.D
Acq: 04 Aug 2020 19:37

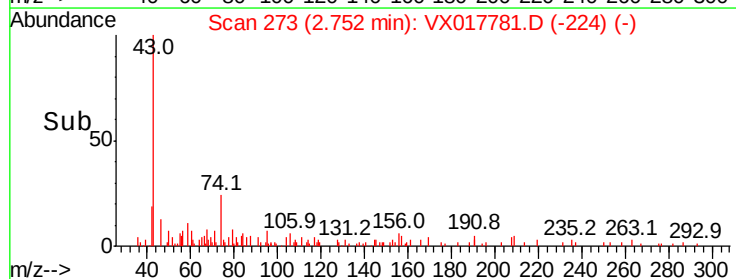
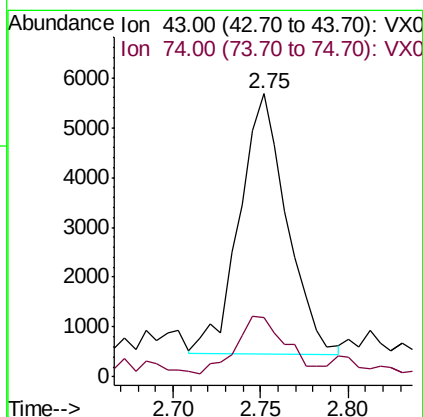
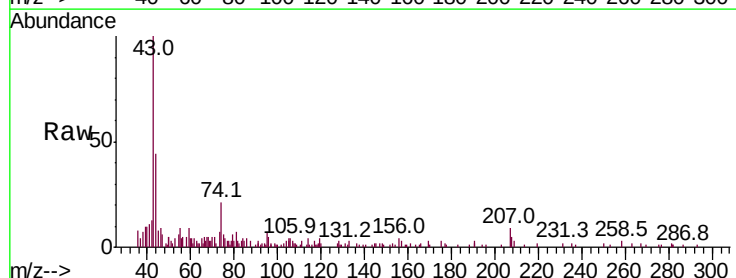
Instrument :
MSVOA_X
ClientSampleId :

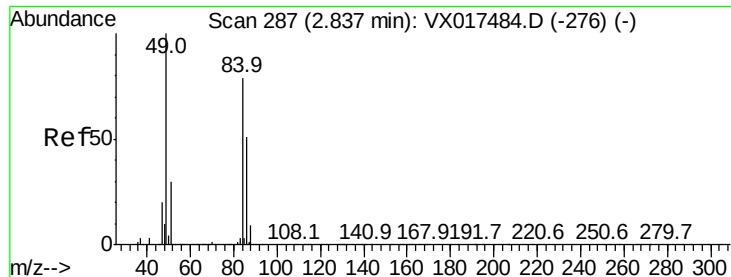
Tot Ion: 43 Resp: 48750
Ion Ratio Lower Upper
43 100
58 28.5 24.2 36.4



#18
Methyl Acetate
Concen: 1.311 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX017781.D
Acq: 04 Aug 2020 19:37

Tgt Ion: 43 Resp: 9870
Ion Ratio Lower Upper
43 100
74 23.0 17.5 26.3

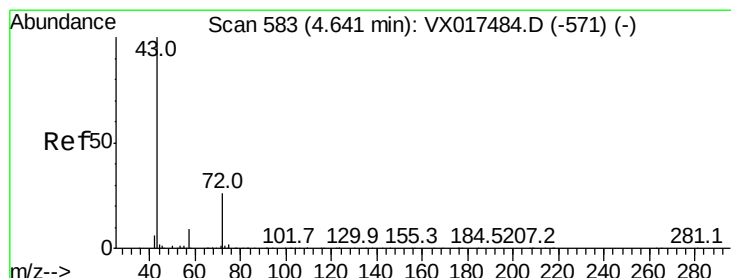
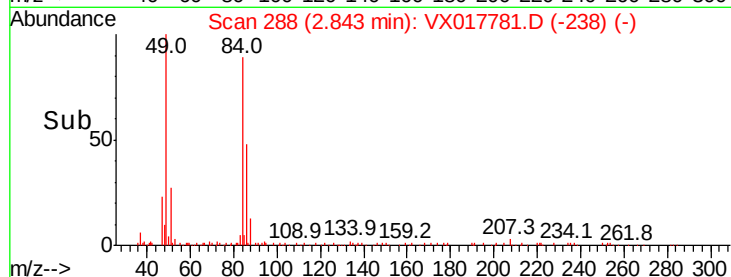
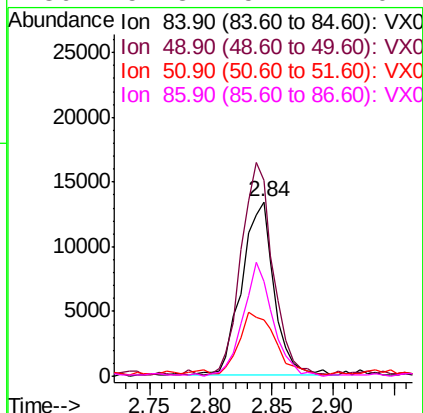
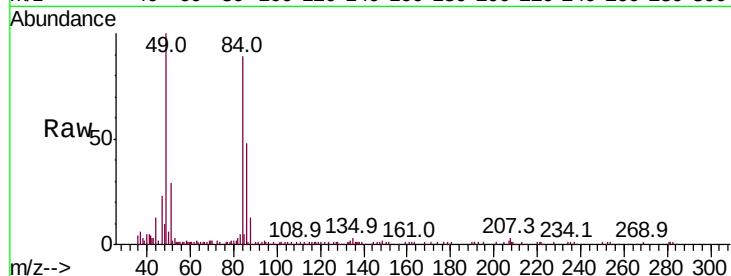




#20
Methylene Chloride
Concen: 2.843 ug/l
RT: 2.84 min Scan# 288
Delta R.T. 0.01 min
Lab File: VX017781.D
Acq: 04 Aug 2020 19:37

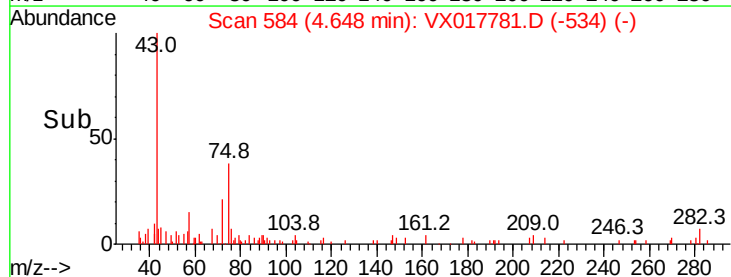
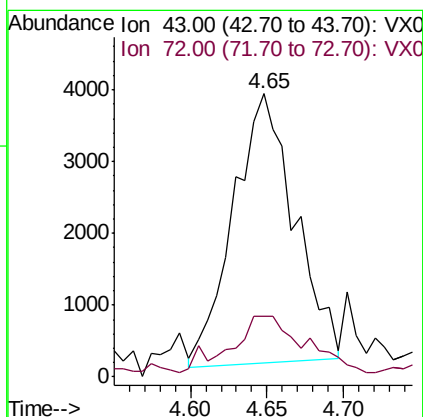
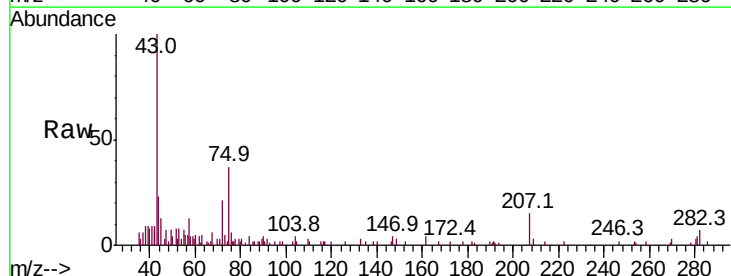
Instrument :
MSVOA_X
ClientSampled :

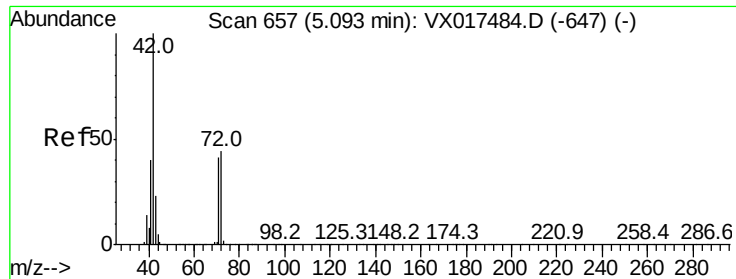
Tot Ion:	84	Resp:	24412
Ion	Ratio	Lower	Upper
84	100		
49	110.4	100.3	150.5
51	30.7	30.5	45.7
86	54.3	51.1	76.7



#25
2-Butanone
Concen: 2.298 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX017781.D
Acq: 04 Aug 2020 19:37

Tgt Ion:	43	Resp:	10434
Ion	Ratio	Lower	Upper
43	100		
72	19.6	19.0	28.4





#29

Tetrahydrofuran

Concen: 0.333 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX017781.D

Acq: 04 Aug 2020 19:37

Instrument :

MSVOA_X

ClientSampled :

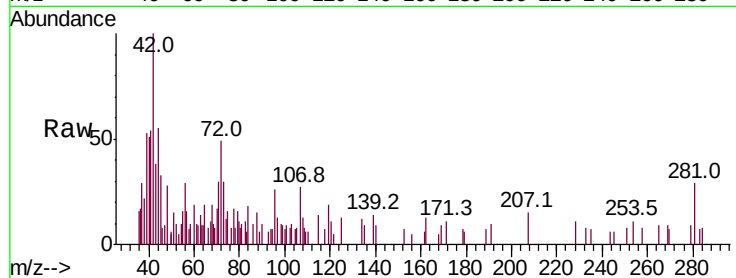
Tot Ion: 42 Resp: 936

Ion Ratio Lower Upper

42 100

72 0.0 35.5 53.3#

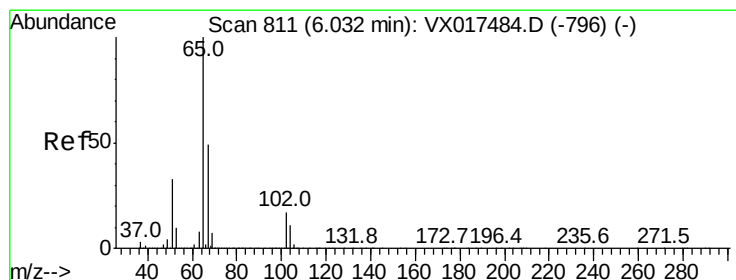
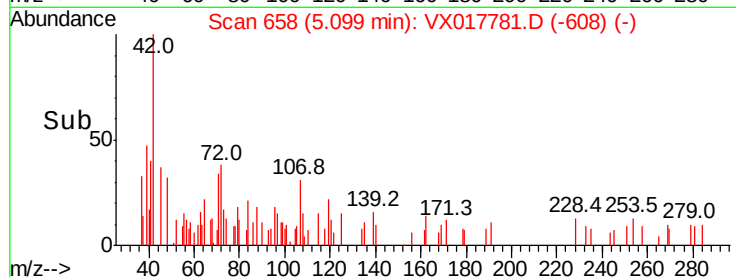
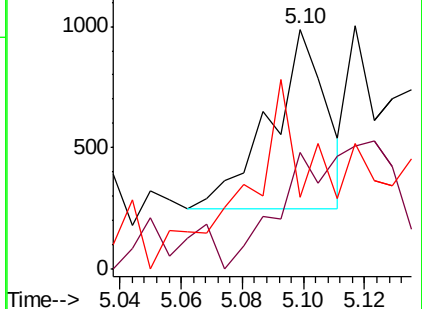
71 127.1 33.0 49.4#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.910 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX017781.D

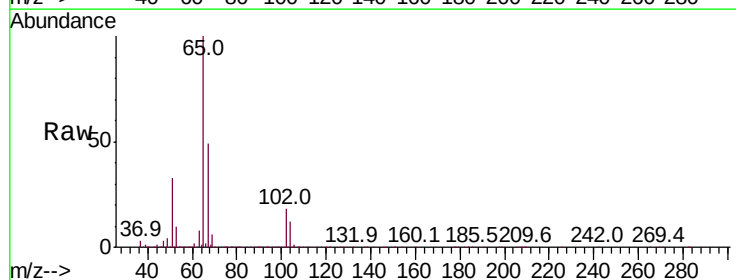
Acq: 04 Aug 2020 19:37

Tgt Ion: 65 Resp: 355246

Ion Ratio Lower Upper

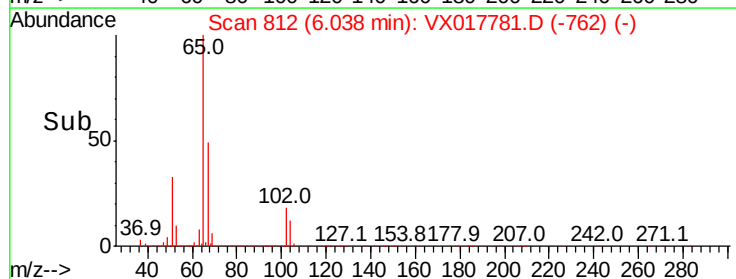
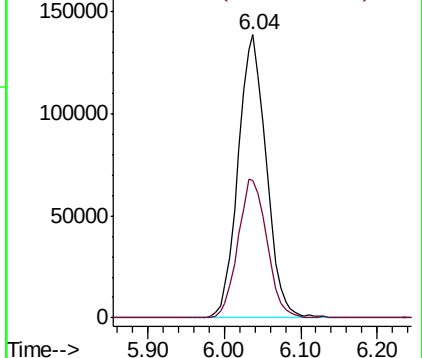
65 100

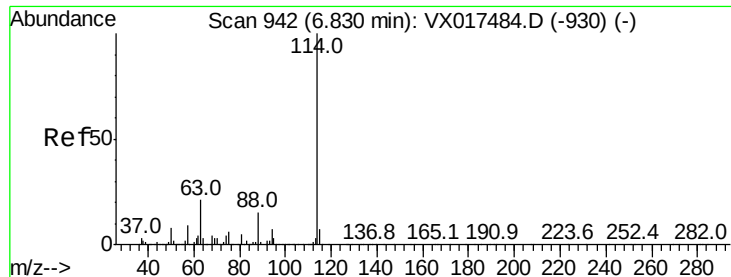
67 50.2 0.0 102.8



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: VX017781.D

Acq: 04 Aug 2020 19:37

Instrument :

MSVOA_X

ClientSampleId :

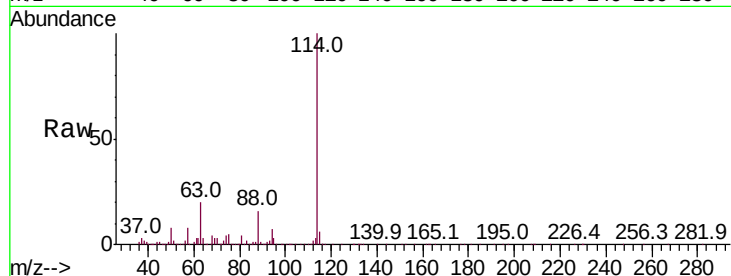
Tot Ion:114 Resp: 824678

Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.6

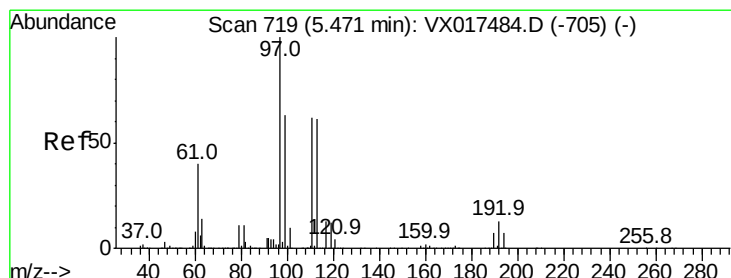
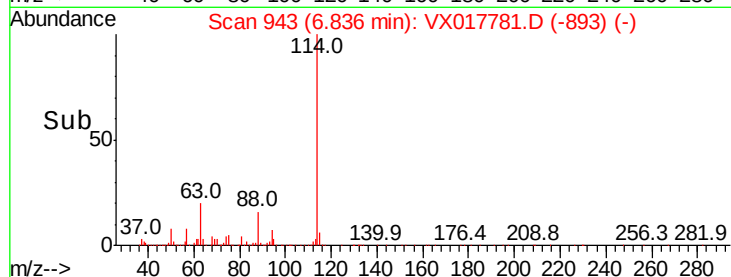
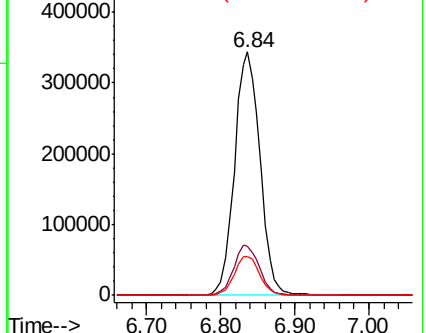
88 16.2 0.0 33.4



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: 49.931 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.00 min

Lab File: VX017781.D

Acq: 04 Aug 2020 19:37

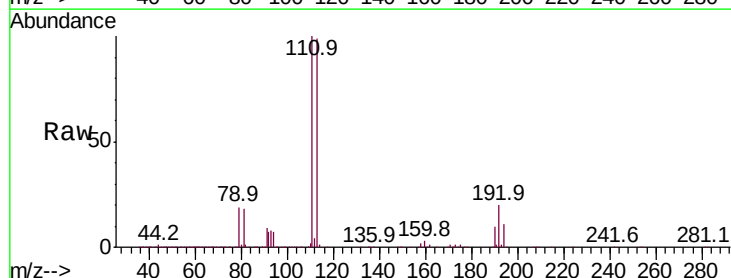
Tgt Ion:113 Resp: 275396

Ion Ratio Lower Upper

113 100

111 102.6 80.7 121.1

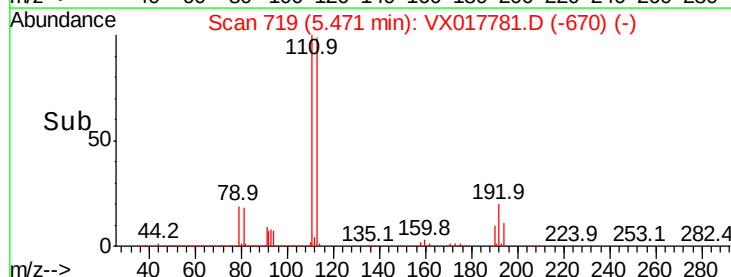
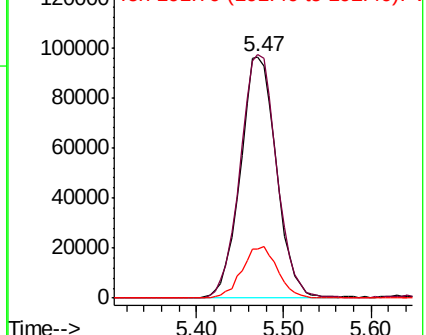
192 21.3 16.9 25.3

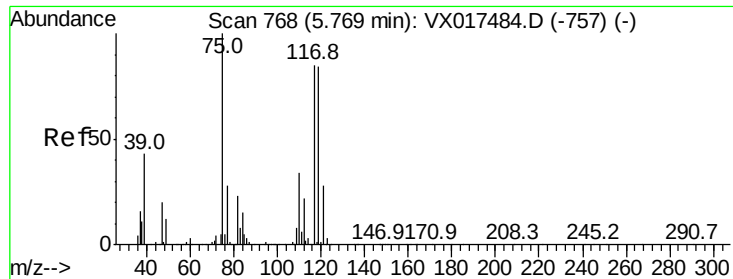


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

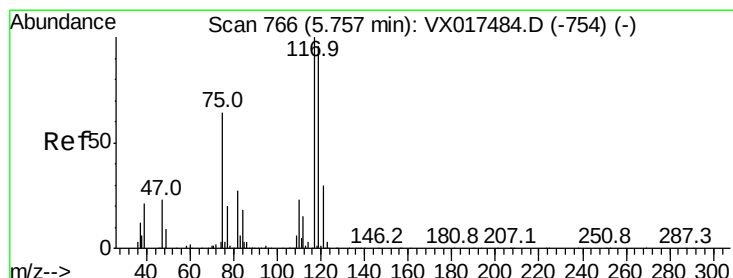
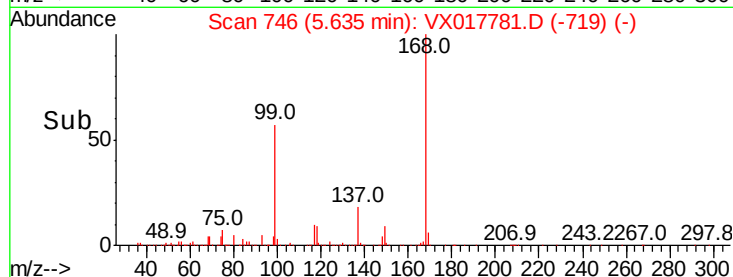
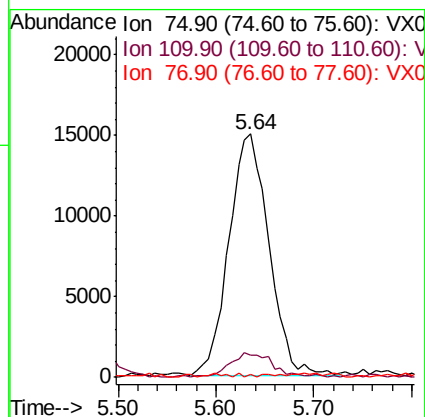
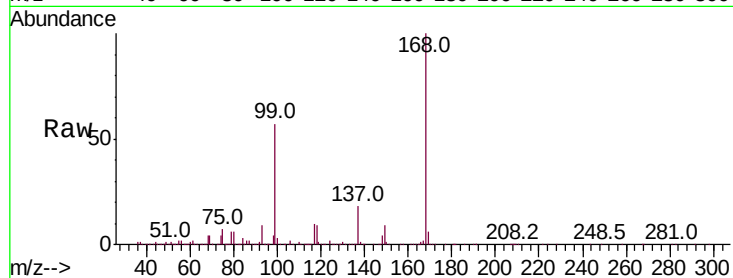




#36
 1,1-Dichloropropene
 Concen: 5.408 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX017781.D
 Acq: 04 Aug 2020 19:37

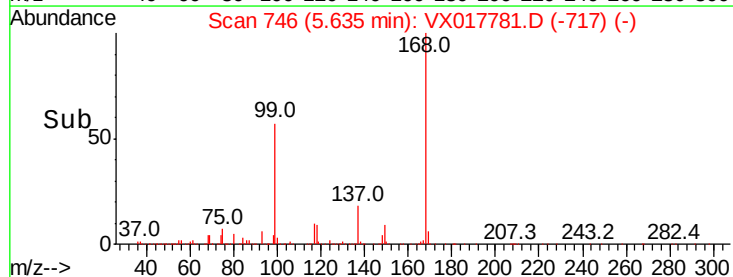
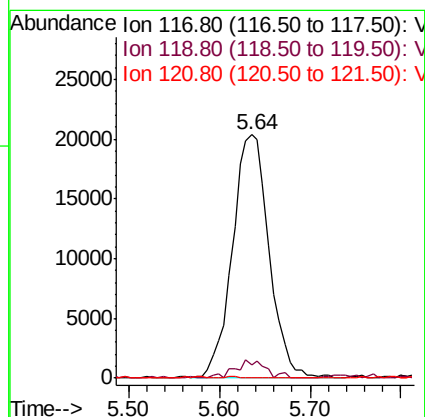
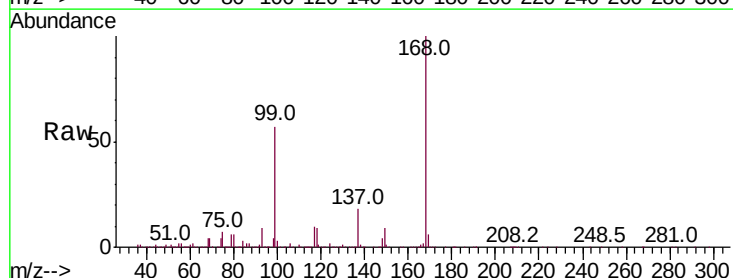
Instrument :
 MSVOA_X
 ClientSampleId :

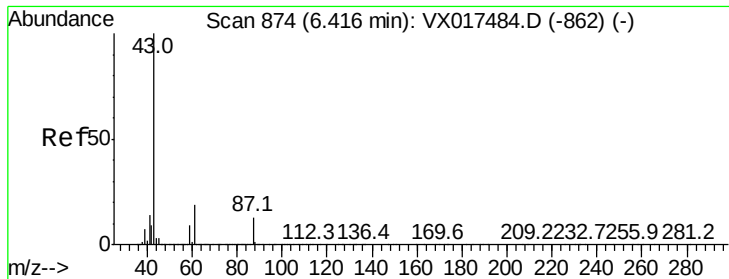
Tot Ion: 75 Resp: 42774
 Ion Ratio Lower Upper
 75 100
 110 10.6 18.1 54.3#
 77 0.5 24.6 37.0#



#38
 Carbon Tetrachloride
 Concen: 5.932 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.12 min
 Lab File: VX017781.D
 Acq: 04 Aug 2020 19:37

Tgt Ion: 117 Resp: 56974
 Ion Ratio Lower Upper
 117 100
 119 4.7 75.4 113.0#
 121 0.1 24.3 36.5#





#43

Isopropyl Acetate

Concen: 9.673 ug/l

RT: 6.42 min Scan# 875

Delta R.T. 0.01 min

Lab File: VX017781.D

Acq: 04 Aug 2020 19:37

Instrument :

MSVOA_X

ClientSampleId :

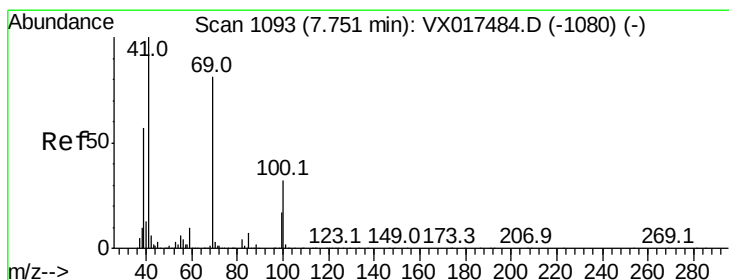
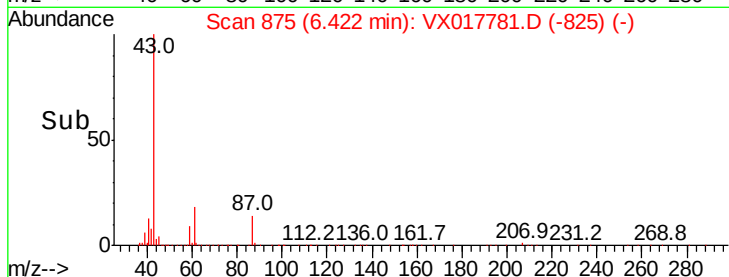
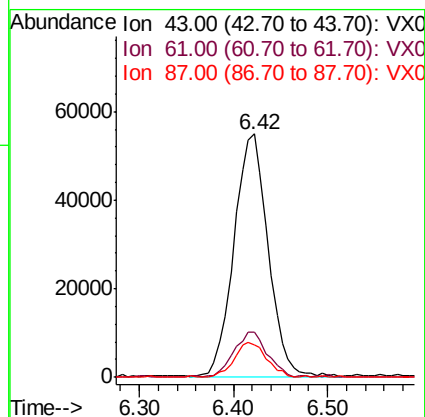
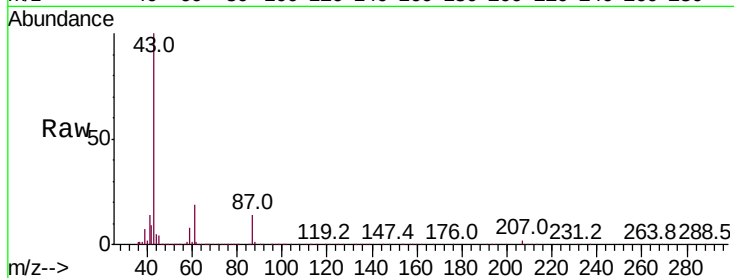
Tot Ion: 43 Resp: 138112

Ion Ratio Lower Upper

43 100

61 18.6 15.5 23.3

87 13.5 10.5 15.7



#48

Methyl methacrylate

Concen: 30.238 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.10 min

Lab File: VX017781.D

Acq: 04 Aug 2020 19:37

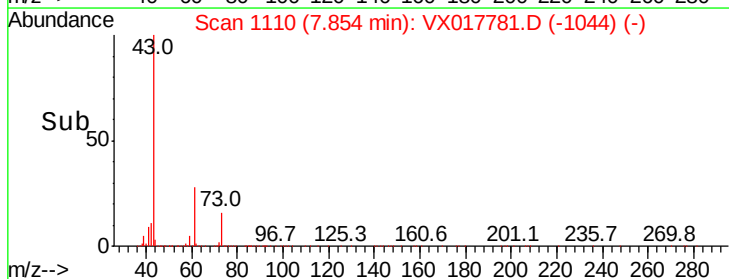
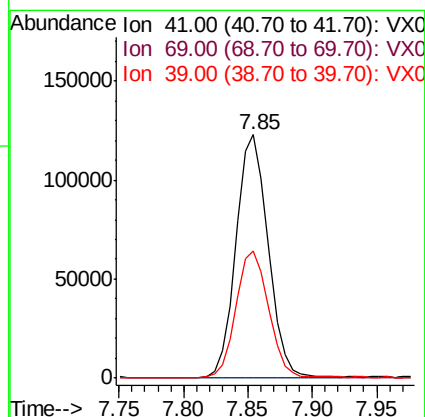
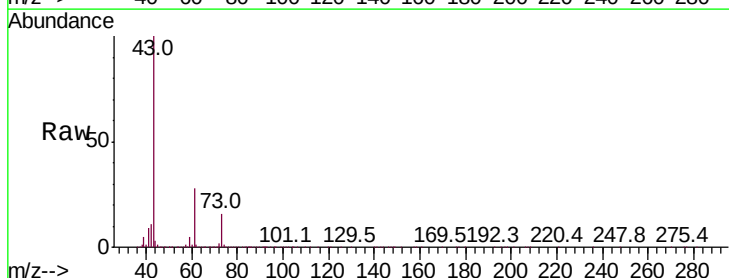
Tgt Ion: 41 Resp: 214023

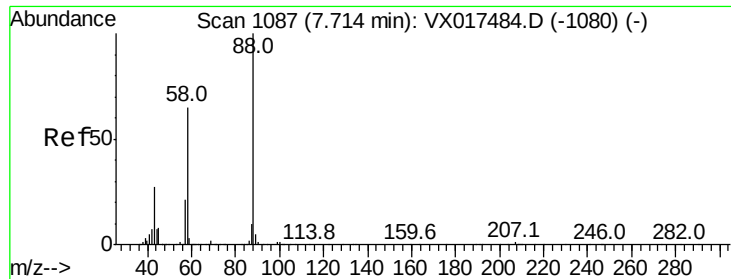
Ion Ratio Lower Upper

41 100

69 0.4 63.1 94.7#

39 52.5 45.1 67.7





#49

1,4-Dioxane

Concen: 2.189 ug/l

RT: 7.74 min Scan# 1091

Delta R.T. 0.02 min

Lab File: VX017781.D

Acq: 04 Aug 2020 19:37

Instrument :

MSVOA_X

ClientSampleId :

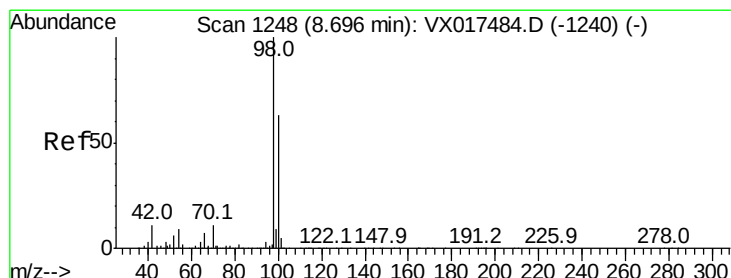
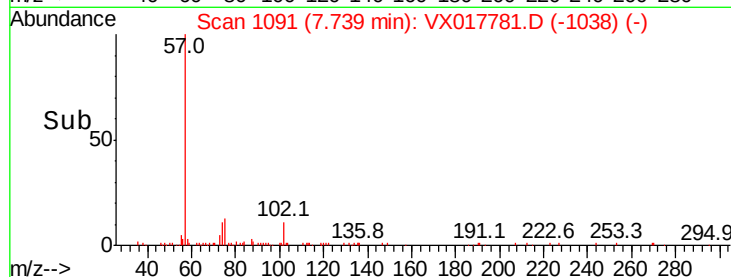
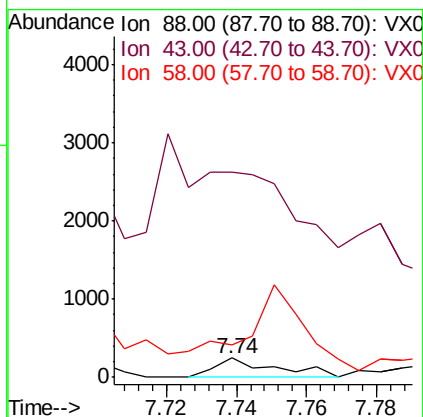
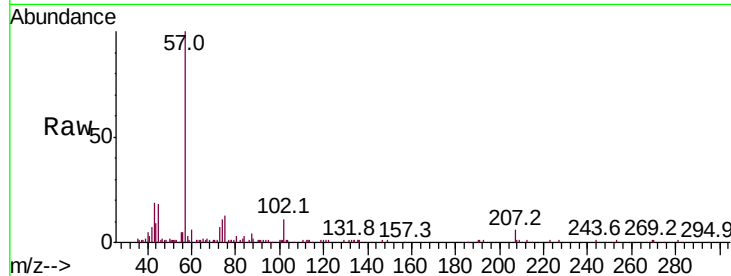
Tot Ion: 88 Resp: 297

Ion Ratio Lower Upper

88 100

43 0.0 27.8 41.6#

58 462.3 58.3 87.5#



#50

Toluene-d8

Concen: 52.141 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX017781.D

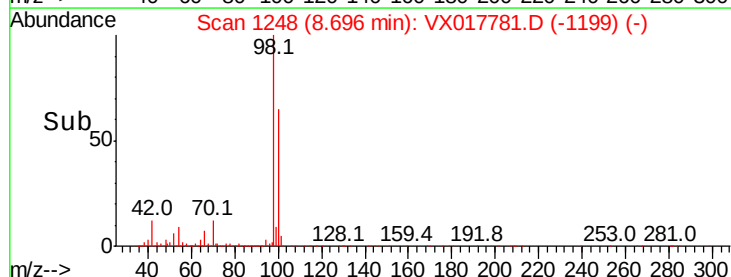
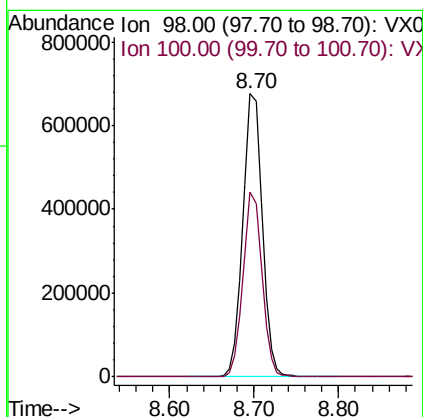
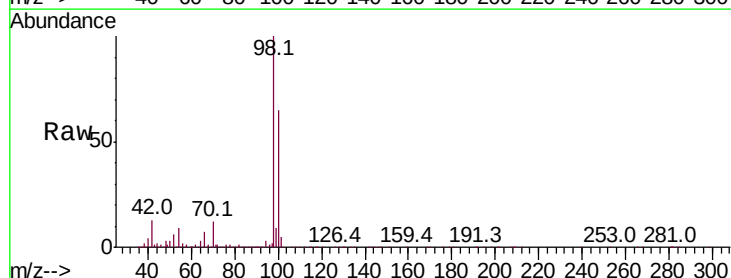
Acq: 04 Aug 2020 19:37

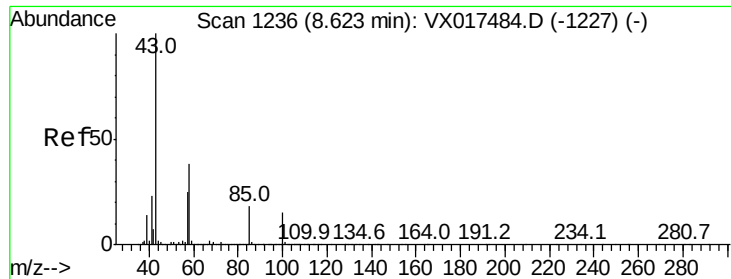
Tgt Ion: 98 Resp: 1037453

Ion Ratio Lower Upper

98 100

100 63.7 52.3 78.5





#51

4-Methyl-2-Pentanone

Concen: 16.110 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VX017781.D

Acq: 04 Aug 2020 19:37

Instrument :

MSVOA_X

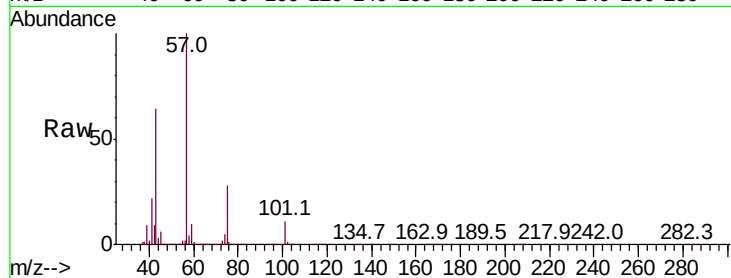
ClientSampleId :

Tot Ion: 43 Resp: 137248

Ion Ratio Lower Upper

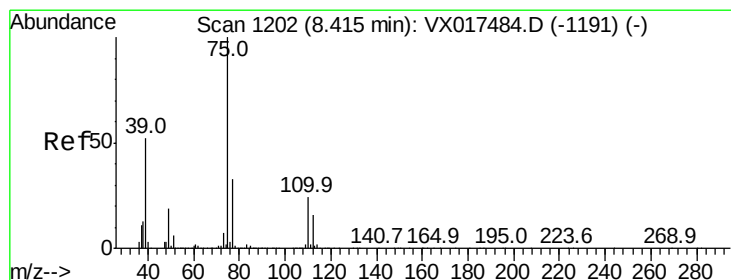
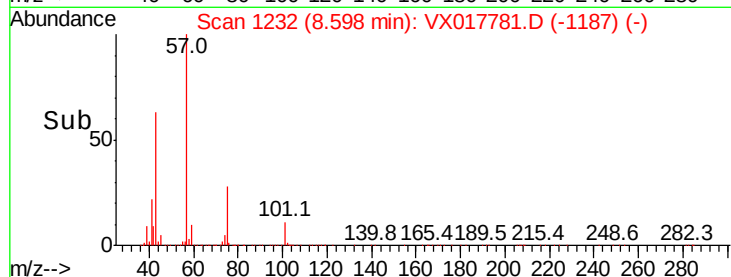
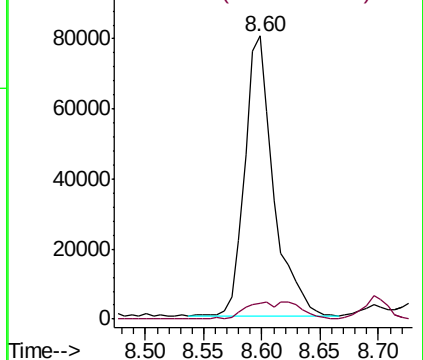
43 100

58 5.9 31.0 46.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#54

cis-1,3-Dichloropropene

Concen: 5.266 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX017781.D

Acq: 04 Aug 2020 19:37

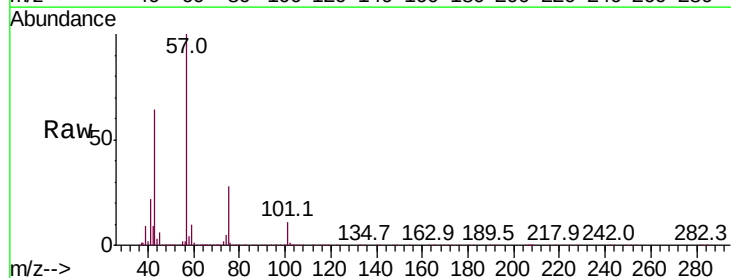
Tgt Ion: 75 Resp: 53749

Ion Ratio Lower Upper

75 100

77 1.6 25.5 38.3#

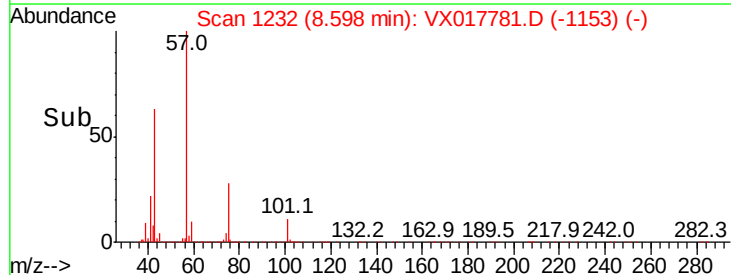
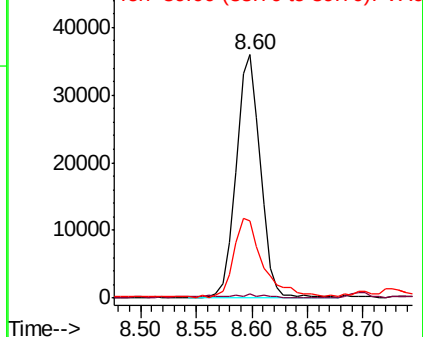
39 31.0 41.8 62.8#

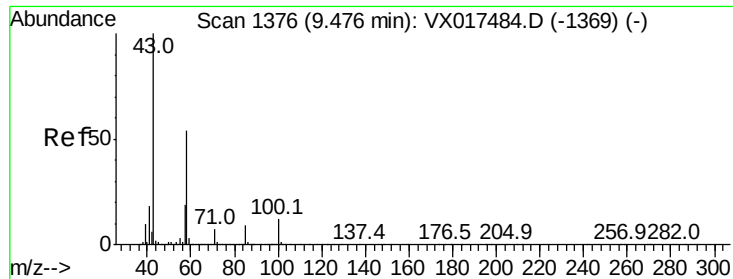


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0

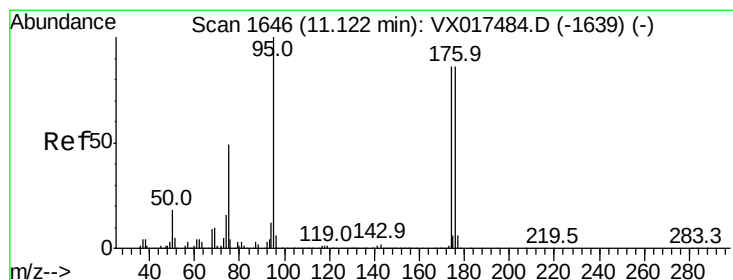
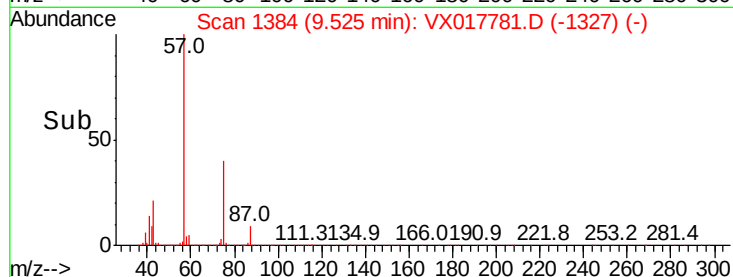
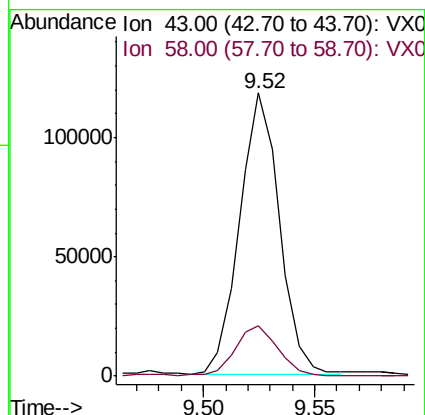
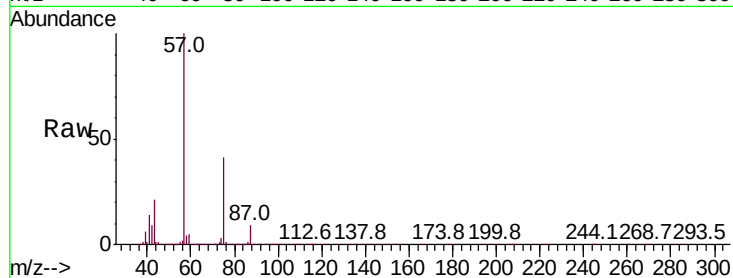




#59
2-Hexanone
Concen: 22.795 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX017781.D
Acq: 04 Aug 2020 19:37

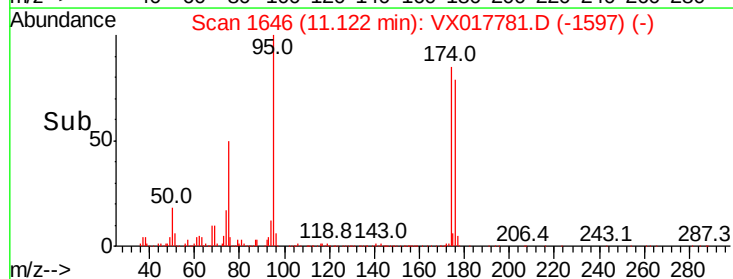
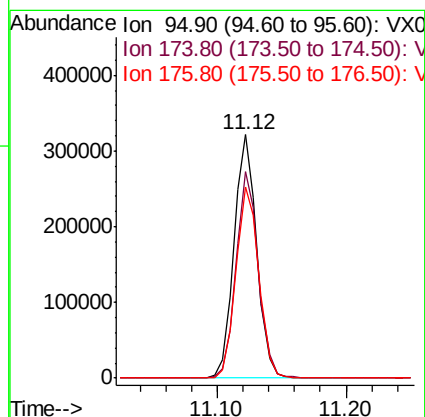
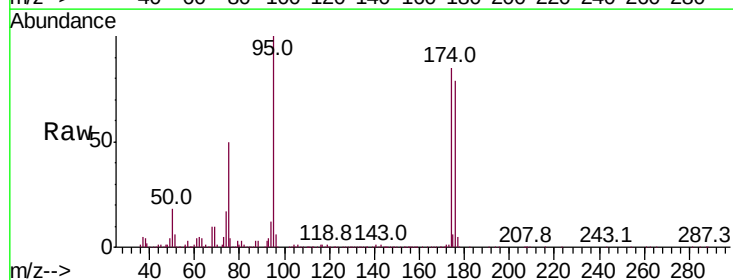
Instrument :
MSVOA_X
ClientSampled :

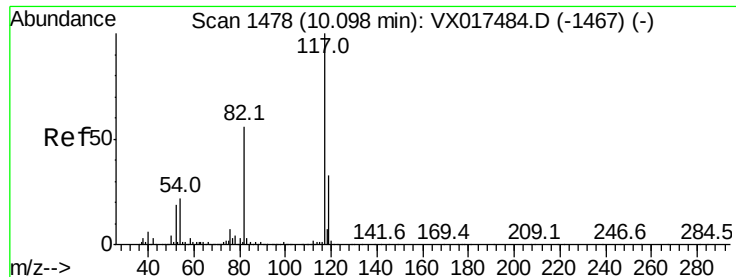
Tot Ion: 43 Resp: 146214
Ion Ratio Lower Upper
43 100
58 20.0 26.6 79.8#



#62
4-Bromofluorobenzene
Concen: 49.447 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX017781.D
Acq: 04 Aug 2020 19:37

Tgt Ion: 95 Resp: 393734
Ion Ratio Lower Upper
95 100
174 83.3 0.0 169.0
176 79.7 0.0 161.0

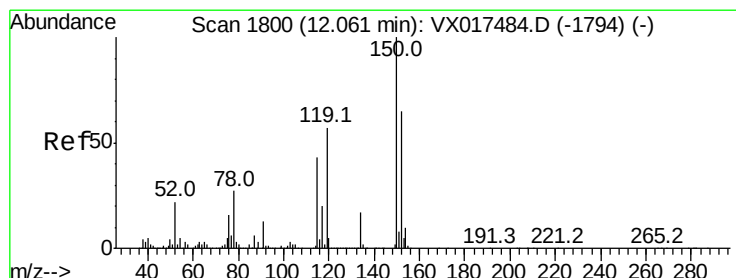
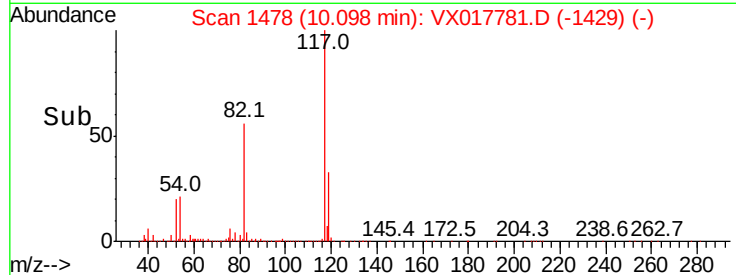
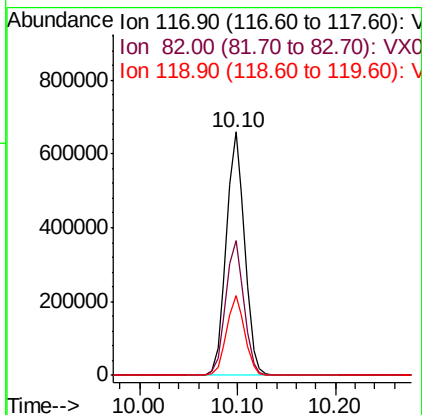
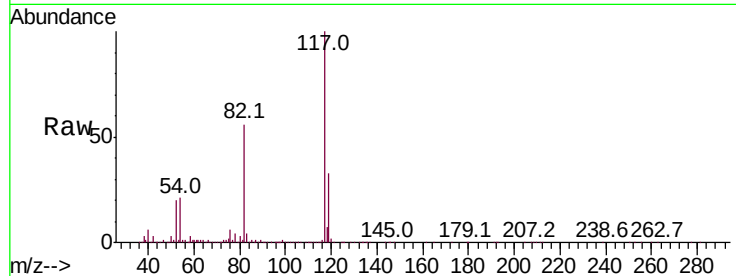




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX017781.D
Acq: 04 Aug 2020 19:37

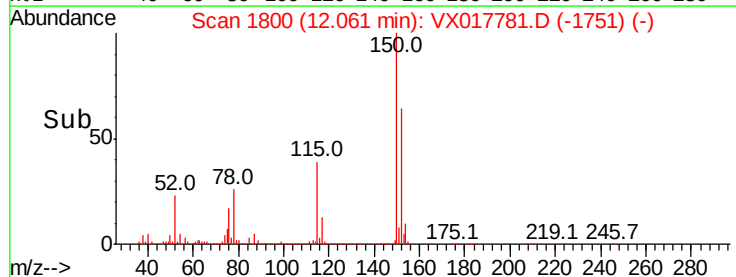
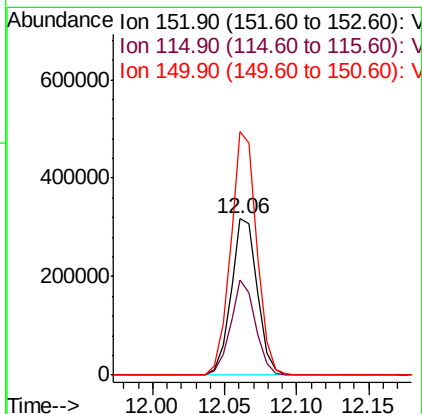
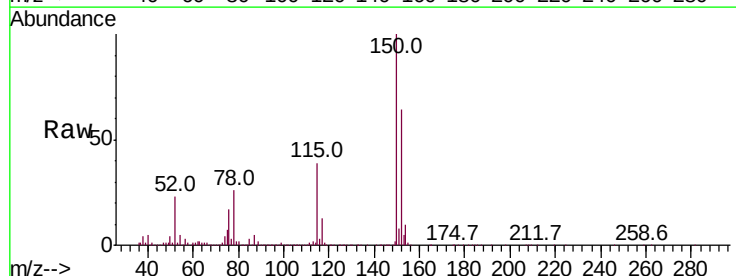
Instrument :
MSVOA_X
ClientSampleId :

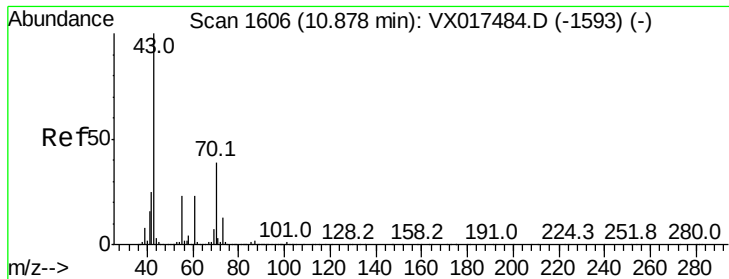
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.6	44.0	66.0
119	32.8	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX017781.D
Acq: 04 Aug 2020 19:37

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.4	65.5	196.6#
150	154.8	0.0	412.6





#74

N-amvl acetate

Concen: 0.539 ug/l

RT: 10.81 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX017781.D

Acq: 04 Aug 2020 19:37

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 6644

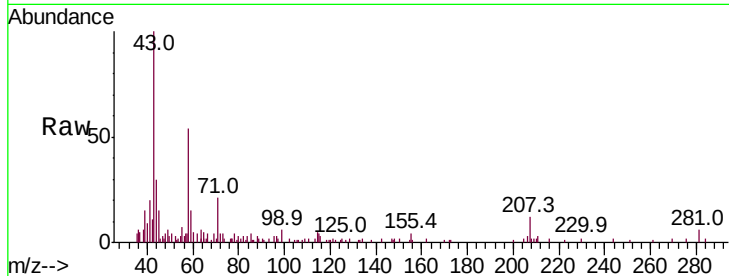
Ion Ratio Lower Upper

43 100

70 4.8 32.3 48.5#

55 5.2 18.4 27.6#

61 0.0 18.6 28.0#

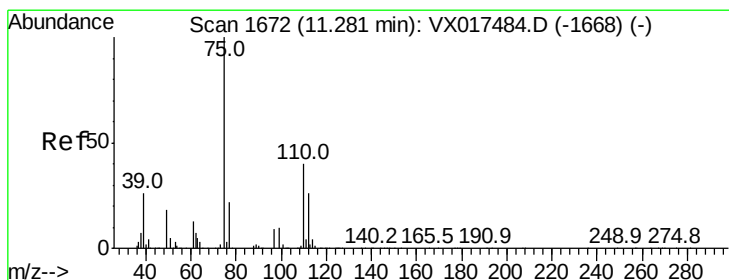
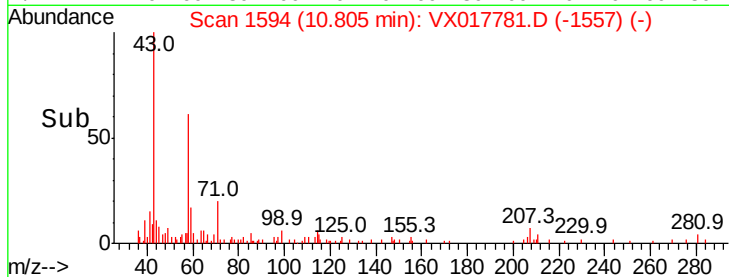
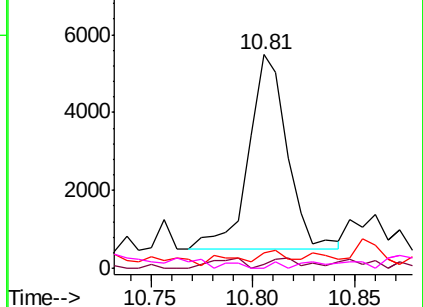


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 24.138 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017781.D

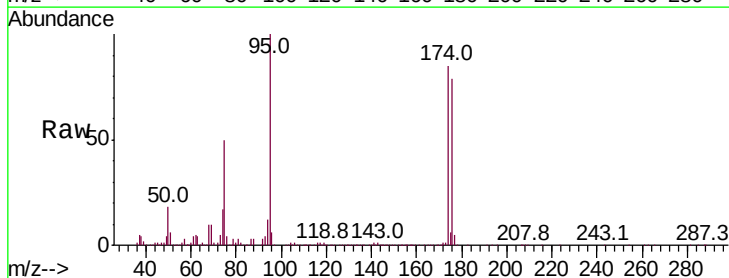
Acq: 04 Aug 2020 19:37

Tgt Ion: 75 Resp: 200726

Ion Ratio Lower Upper

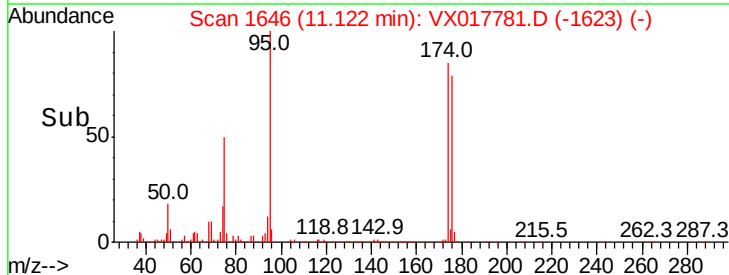
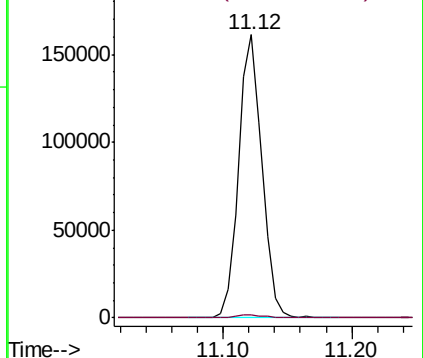
75 100

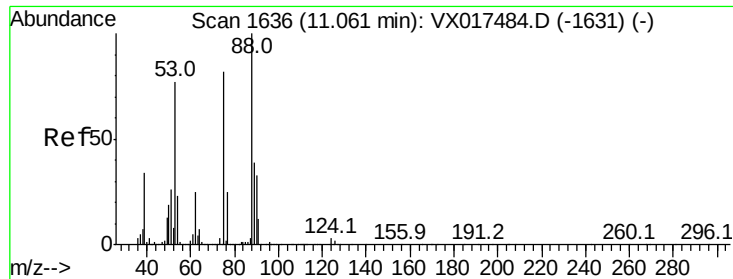
77 1.7 21.8 65.3#



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: 60.823 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

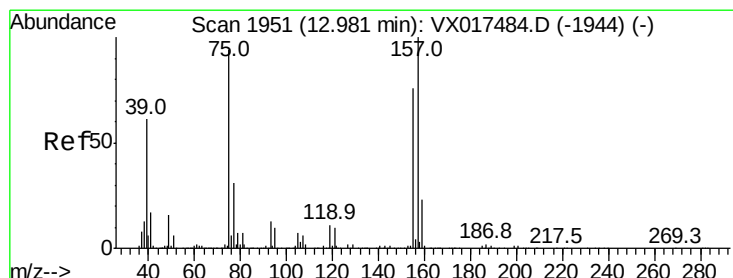
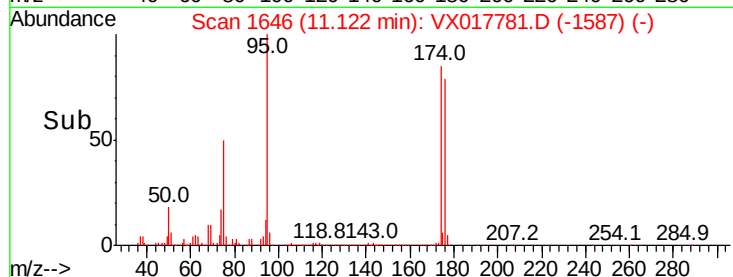
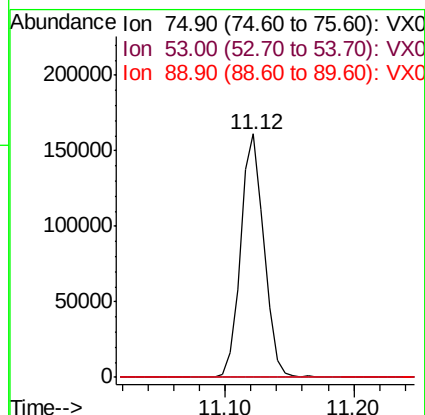
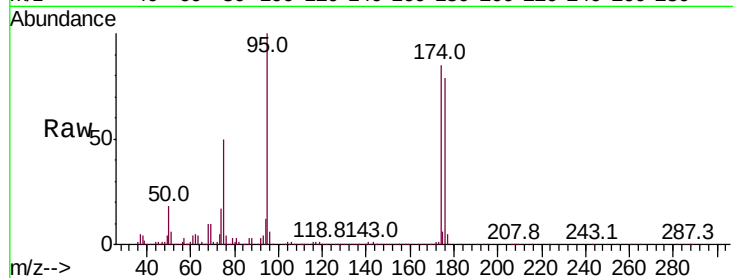
Lab File: VX017781.D

Acq: 04 Aug 2020 19:37

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 75 Resp: 200726

Ion	Ratio	Lower	Upper
75	100		
53	0.4	75.9	113.9#
89	0.0	37.8	56.6#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.605 ug/l

RT: 12.99 min Scan# 1953

Delta R.T. 0.01 min

Lab File: VX017781.D

Acq: 04 Aug 2020 19:37

Tgt Ion: 75 Resp: 74

Ion	Ratio	Lower	Upper
75	100		
155	0.0	42.3	126.8#
157	0.0	54.3	162.9#

