

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX071020\
 Data File : VX017342.D
 Acq On : 10 Jul 2020 17:50
 Operator : JC/SP
 Sample : L3259-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 11 01:04:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	253696	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	428100	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	457865	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	241924	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	164419	52.57	ug/l	0.00
Spiked Amount			Recovery	=	105.14%	
35) Dibromofluoromethane	5.46	113	139998	51.70	ug/l	0.00
Spiked Amount			Recovery	=	103.40%	
50) Toluene-d8	8.70	98	530292	52.96	ug/l	0.00
Spiked Amount			Recovery	=	105.92%	
62) 4-Bromofluorobenzene	11.12	95	223475	57.09	ug/l	0.00
Spiked Amount			Recovery	=	114.18%	

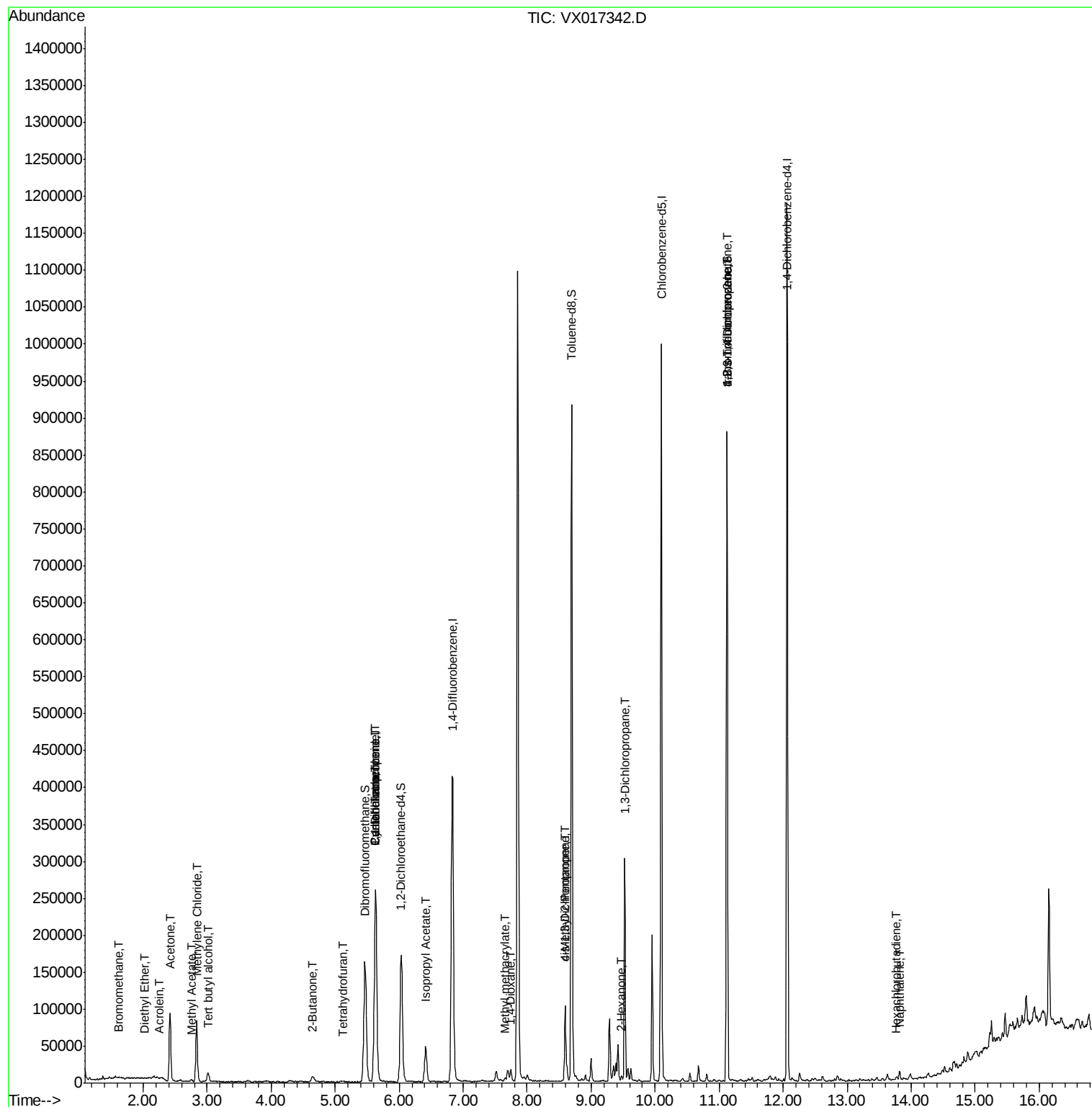
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.62	94	294	0.202	ug/l #	3
8) Diethyl Ether	2.03	74	140	0.467	ug/l	63
11) Tert butyl alcohol	3.01	59	15119	25.340	ug/l	98
13) Acrolein	2.26	56	163	0.457	ug/l #	15
16) Acetone	2.42	43	100717	86.083	ug/l	95
18) Methyl Acetate	2.75	43	3643	1.193	ug/l	94
20) Methylene Chloride	2.84	84	36586	13.056	ug/l	96
25) 2-Butanone	4.65	43	8699	4.462	ug/l	98
29) Tetrahydrofuran	5.11	42	1821	1.414	ug/l #	64
31) Cyclohexane	5.62	56	4883	1.156	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	17823	4.405	ug/l #	50
38) Carbon Tetrachloride	5.64	117	25535	5.730	ug/l #	19
43) Isopropyl Acetate	6.42	43	61730	9.049	ug/l	97
44) Trichloroethene	7.18	130	57	Below Cal		3
48) Methyl methacrylate	7.66	41	4861	1.500	ug/l #	15
49) 1,4-Dioxane	7.74	88	22	0.300	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	42938	10.559	ug/l #	35
54) cis-1,3-Dichloropropene	8.59	75	16659	3.279	ug/l #	61
57) 1,3-Dichloropropane	9.52	76	2633	0.513	ug/l #	49
59) 2-Hexanone	9.48	43	4576	1.541	ug/l	89
76) 1,2,3-Trichloropropane	11.12	75	112116	23.567	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	112116	61.031	ug/l #	13
88) 1,4-Dichlorobenzene	12.08	146	887	Below Cal	#	1
94) Hexachlorobutadiene	13.76	225	139	0.916	ug/l #	45
95) Naphthalene	13.82	128	7115	0.464	ug/l	98

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 29 17:10:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017342.D

Acq: 10 Jul 2020 17:50

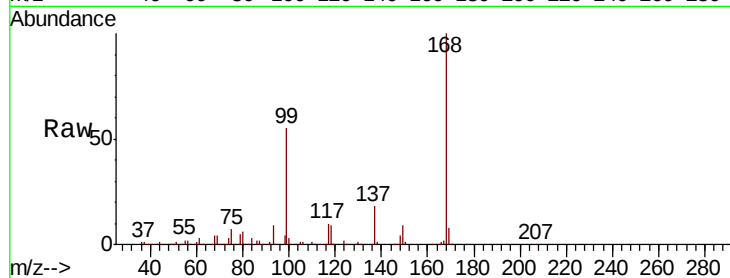
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 253696

Ion Ratio Lower Upper

168 100

99 54.9 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

80000

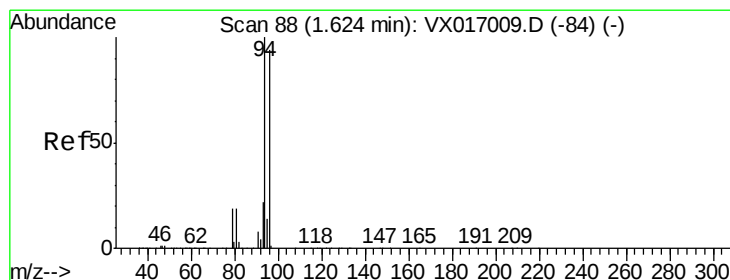
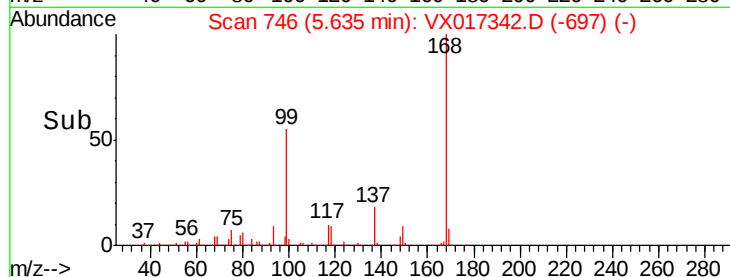
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.202 ug/l

RT: 1.62 min Scan# 87

Delta R.T. -0.01 min

Lab File: VX017342.D

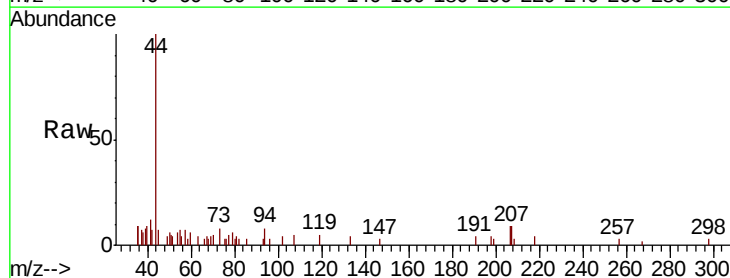
Acq: 10 Jul 2020 17:50

Tgt Ion: 94 Resp: 294

Ion Ratio Lower Upper

94 100

96 0.0 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

400

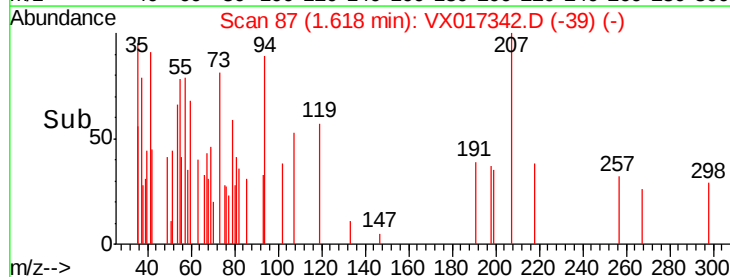
300

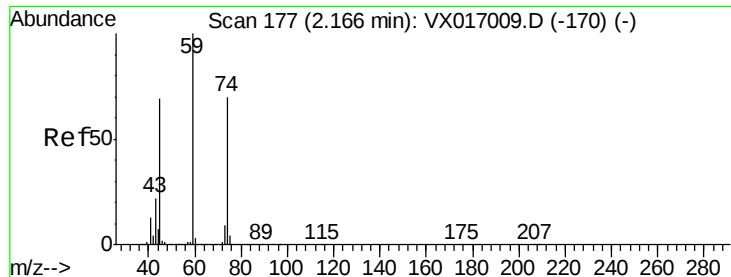
200

100

0

Time-->





#8

Diethyl Ether

Concen: 0.467 ug/l

RT: 2.03 min Scan# 154

Delta R.T. -0.14 min

Lab File: VX017342.D

Acq: 10 Jul 2020 17:50

Instrument :

MSVOA_X

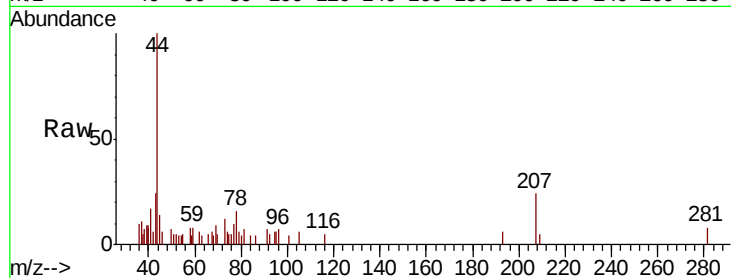
ClientSampled :

Tot Ion: 74 Resp: 140

Ion Ratio Lower Upper

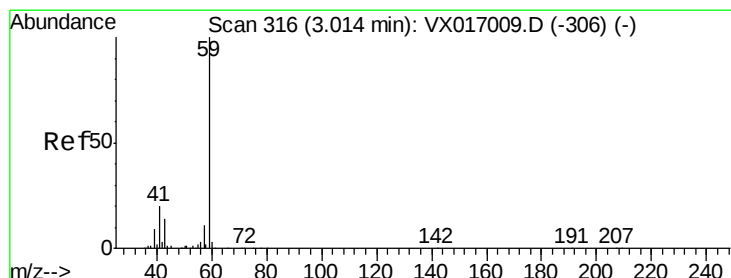
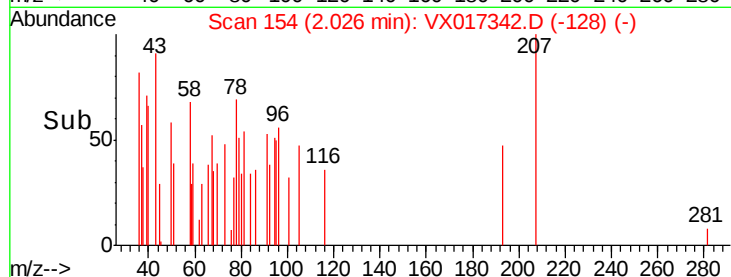
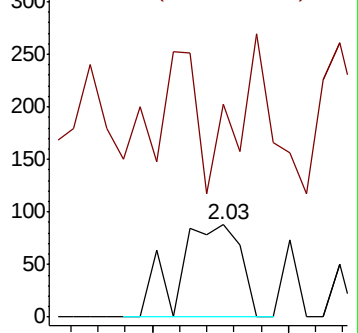
74 100

45 62.9 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 25.340 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX017342.D

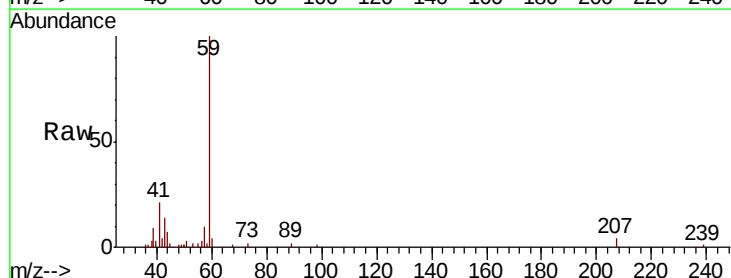
Acq: 10 Jul 2020 17:50

Tgt Ion: 59 Resp: 15119

Ion Ratio Lower Upper

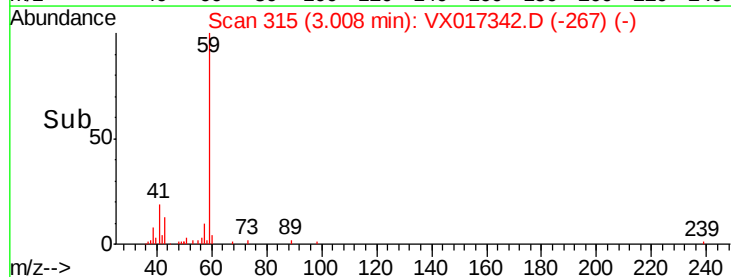
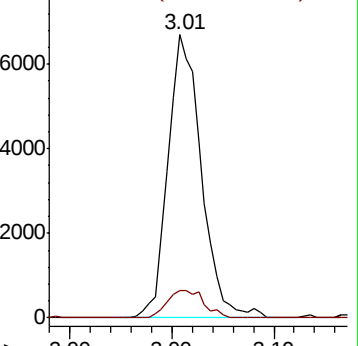
59 100

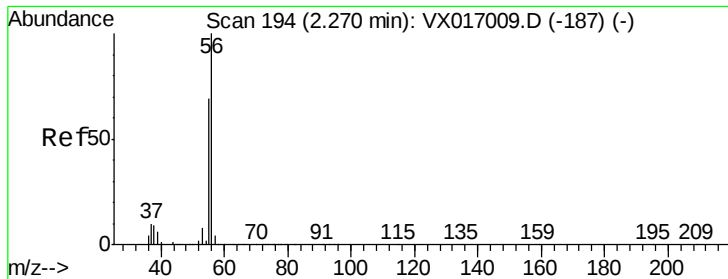
57 10.8 8.2 12.2



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.457 ug/l

RT: 2.26 min Scan# 192

Delta R.T. -0.01 min

Lab File: VX017342.D

Acq: 10 Jul 2020 17:50

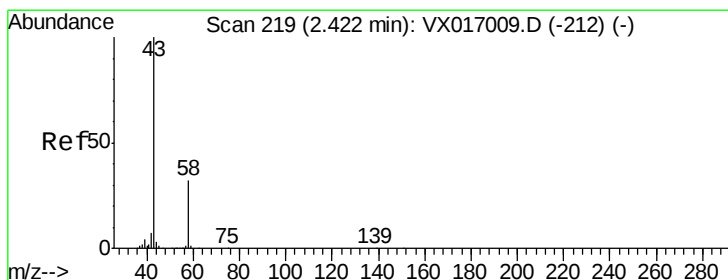
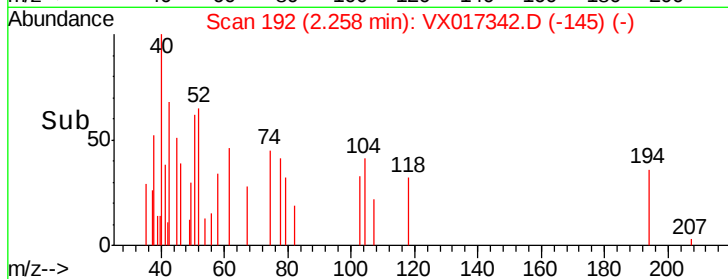
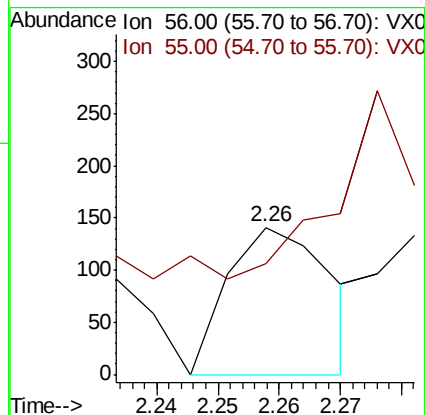
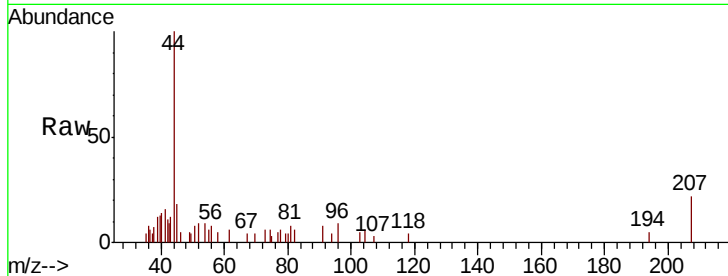
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 163

Ion Ratio Lower Upper

56 100

55 0.0 55.7 83.5#



#16

Acetone

Concen: 86.083 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017342.D

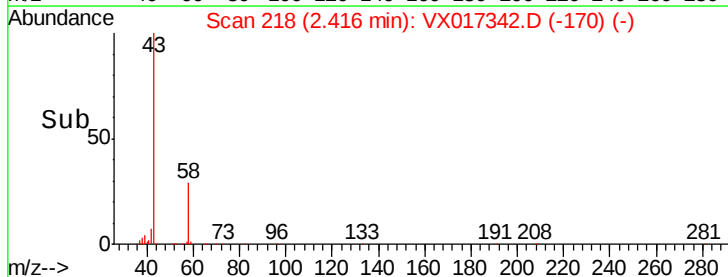
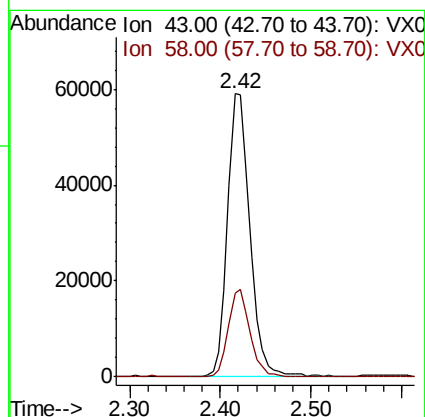
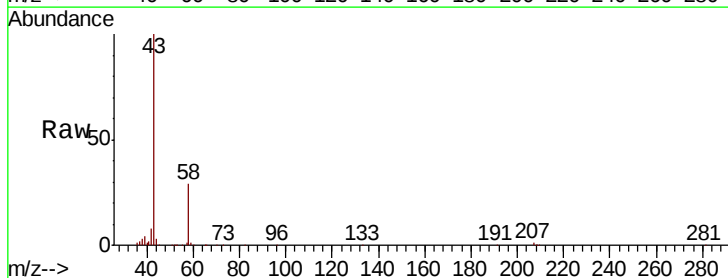
Acq: 10 Jul 2020 17:50

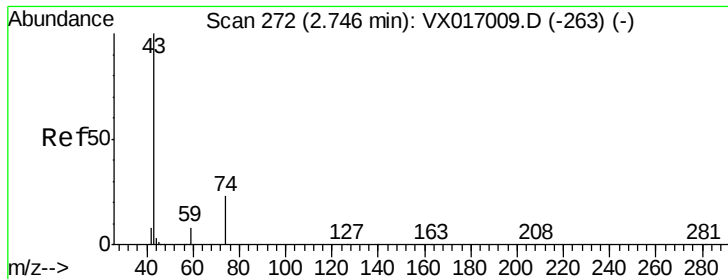
Tgt Ion: 43 Resp: 100717

Ion Ratio Lower Upper

43 100

58 29.5 25.7 38.5

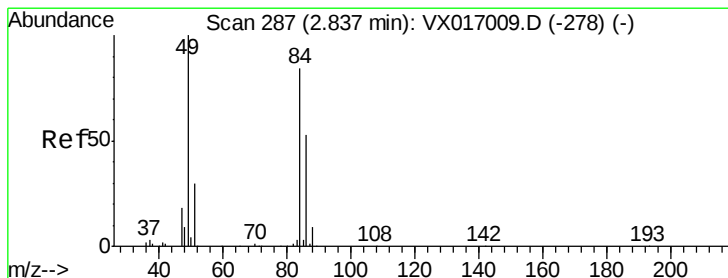
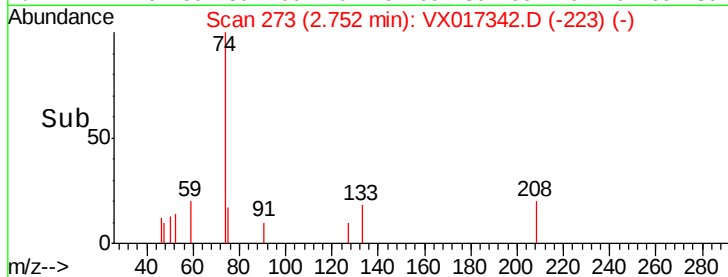
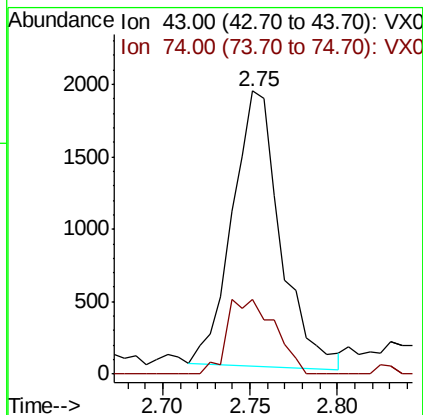
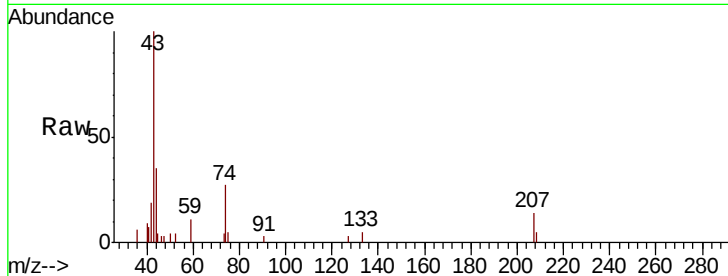




#18
Methvl Acetate
Concen: 1.193 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX017342.D
Acq: 10 Jul 2020 17:50

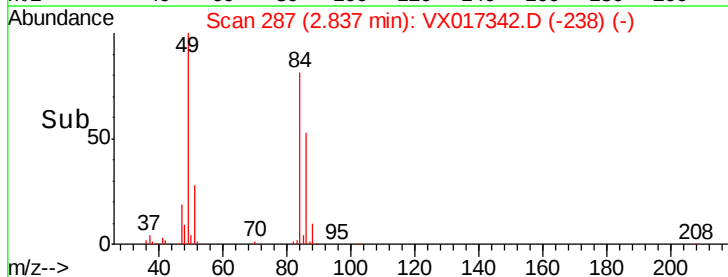
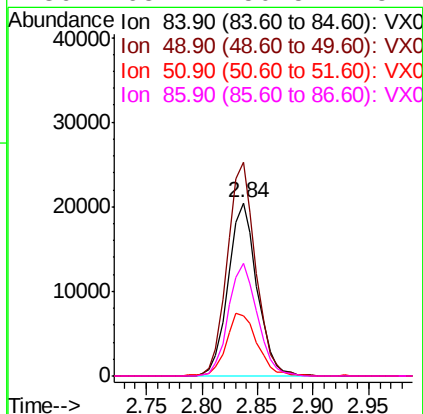
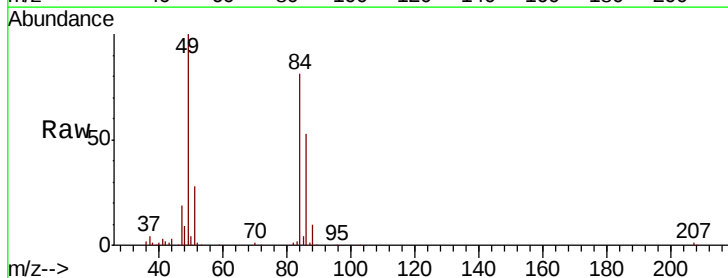
Instrument :
MSVOA_X
ClientSampleId :

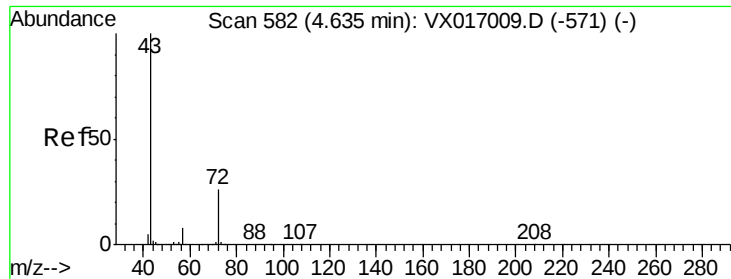
Tot Ion: 43 Resp: 3643
Ion Ratio Lower Upper
43 100
74 27.1 19.3 28.9



#20
Methylene Chloride
Concen: 13.056 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017342.D
Acq: 10 Jul 2020 17:50

Tgt Ion: 84 Resp: 36586
Ion Ratio Lower Upper
84 100
49 123.4 94.7 142.1
51 34.6 28.6 42.8
86 65.1 50.5 75.7

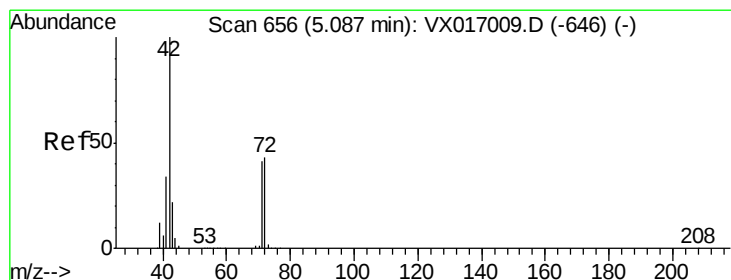
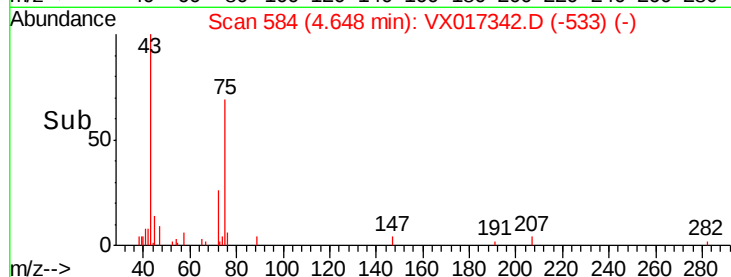
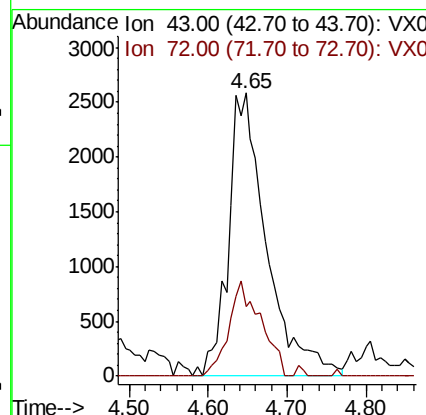
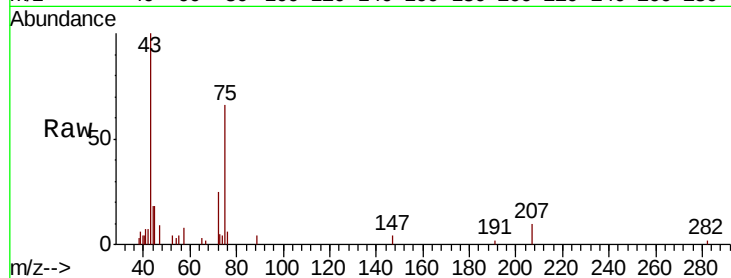




#25
2-Butanone
Concen: 4.462 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX017342.D
Acq: 10 Jul 2020 17:50

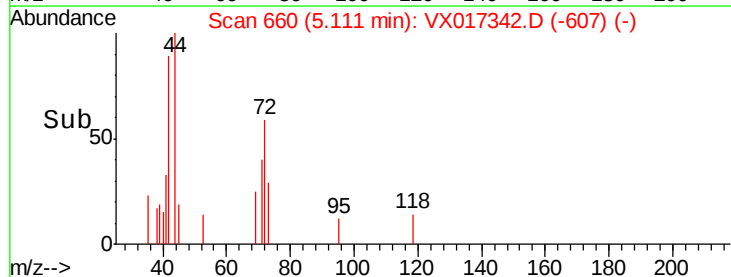
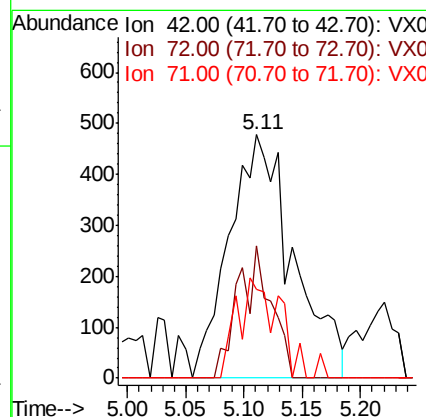
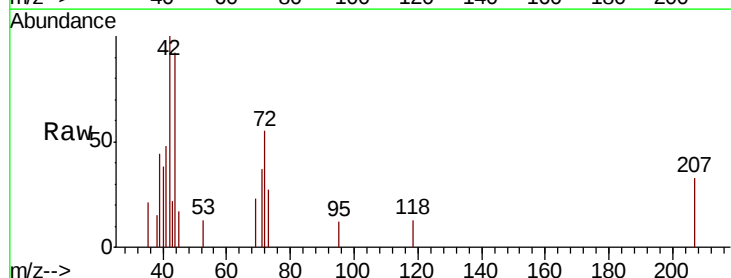
Instrument :
MSVOA_X
ClientSampleId :

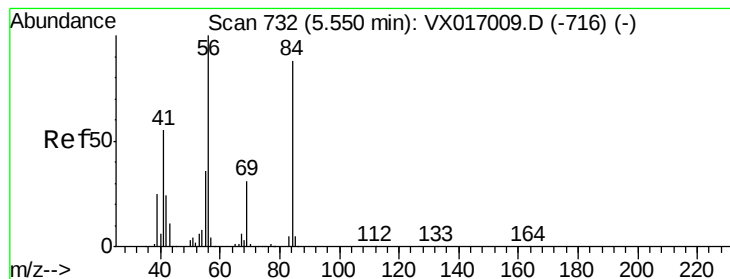
Tot Ion: 43 Resp: 8699
Ion Ratio Lower Upper
43 100
72 24.8 20.8 31.2



#29
Tetrahydrofuran
Concen: 1.414 ug/l
RT: 5.11 min Scan# 660
Delta R.T. 0.02 min
Lab File: VX017342.D
Acq: 10 Jul 2020 17:50

Tgt Ion: 42 Resp: 1821
Ion Ratio Lower Upper
42 100
72 12.9 35.3 52.9#
71 26.7 33.1 49.7#





#31

Cyclohexane

Concen: 1.156 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.07 min

Lab File: VX017342.D

Acq: 10 Jul 2020 17:50

Instrument :

MSVOA_X

ClientSampled :

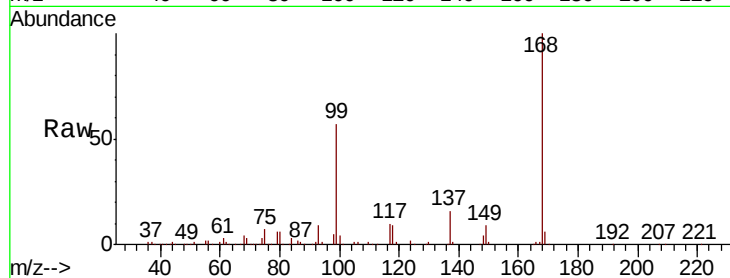
Tot Ion: 56 Resp: 4883

Ion Ratio Lower Upper

56 100

69 163.7 25.0 37.4#

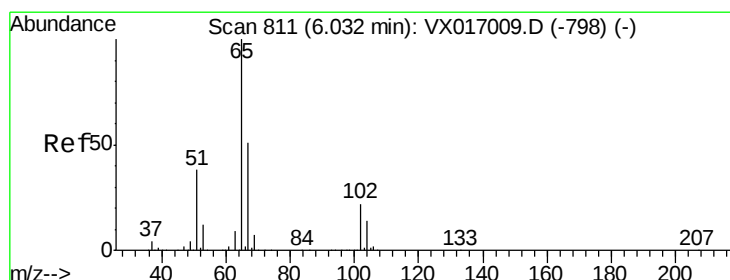
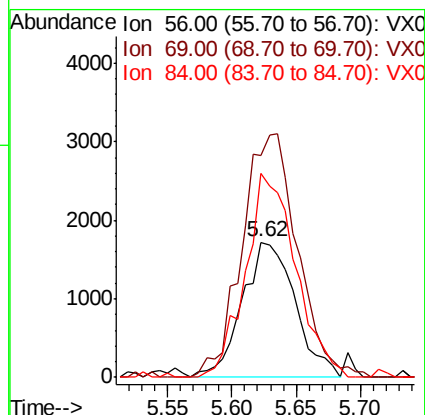
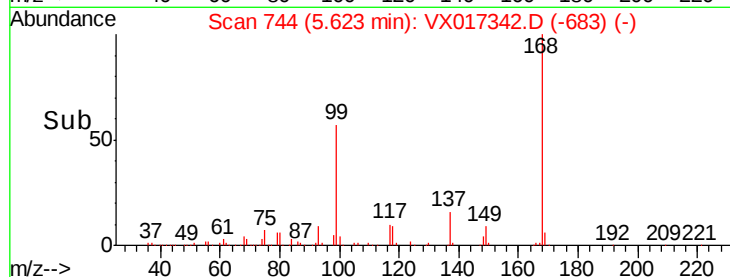
84 150.5 69.1 103.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 52.571 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017342.D

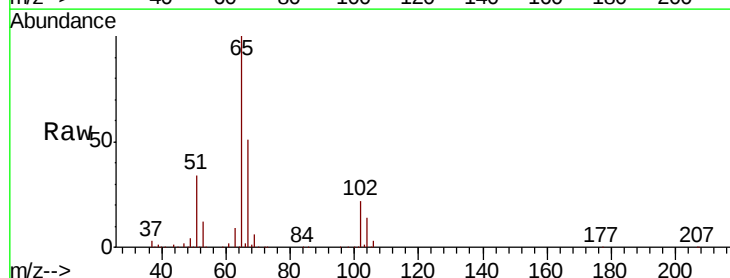
Acq: 10 Jul 2020 17:50

Tgt Ion: 65 Resp: 164419

Ion Ratio Lower Upper

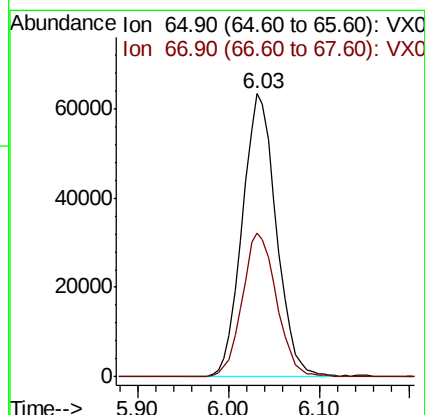
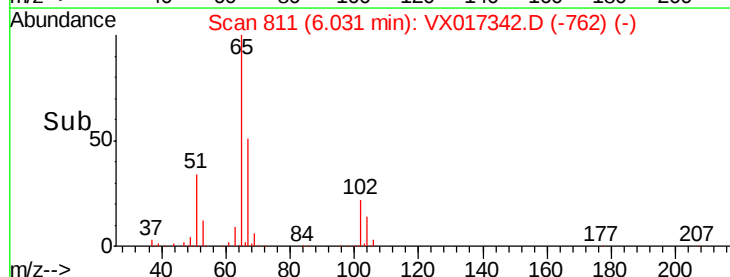
65 100

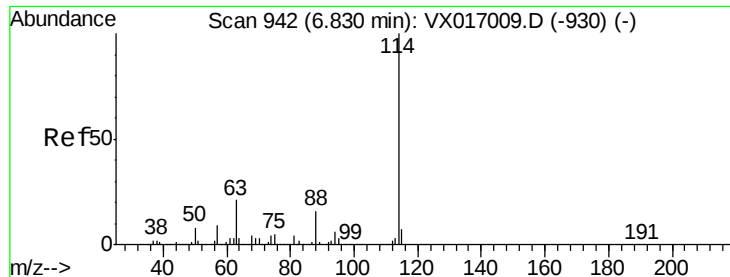
67 51.3 0.0 103.8



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: VX017342.D

Acq: 10 Jul 2020 17:50

Instrument :

MSVOA_X

ClientSampleId :

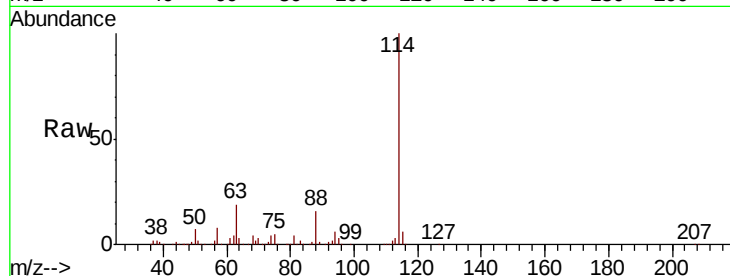
Tot Ion:114 Resp: 428100

Ion Ratio Lower Upper

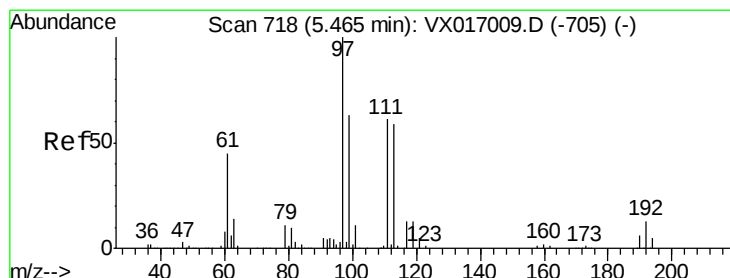
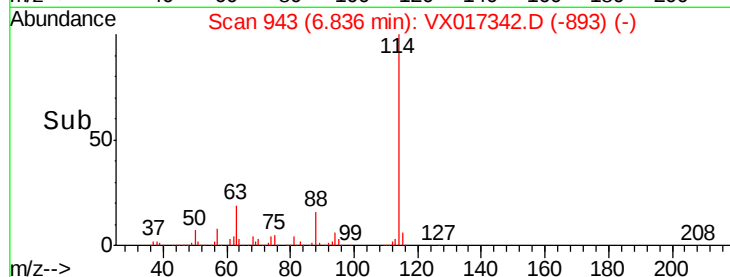
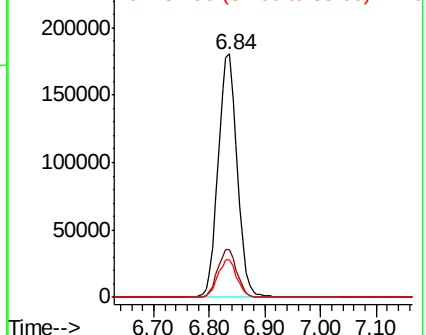
114 100

63 19.4 0.0 41.4

88 15.6 0.0 32.4



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: 51.697 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX017342.D

Acq: 10 Jul 2020 17:50

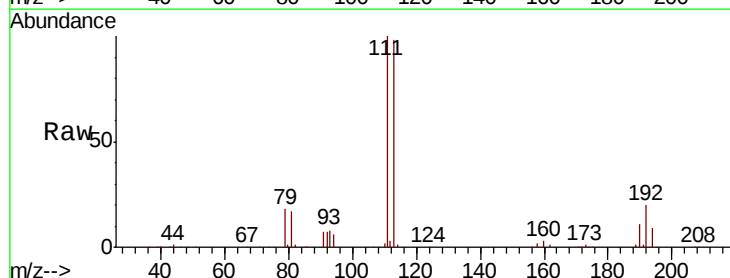
Tgt Ion:113 Resp: 139998

Ion Ratio Lower Upper

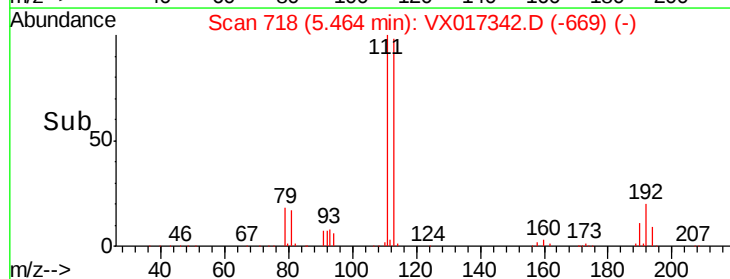
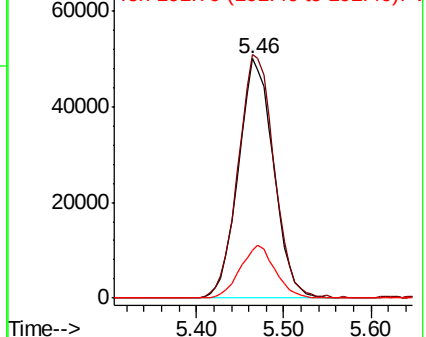
113 100

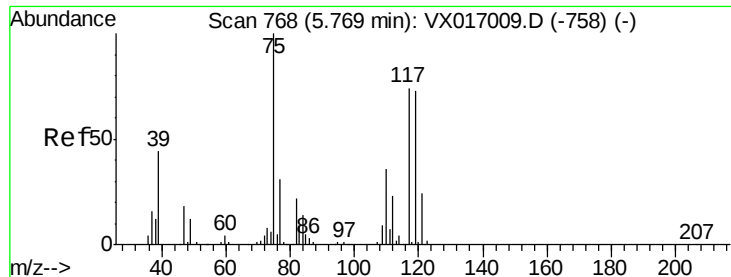
111 103.9 81.9 122.9

192 21.8 16.7 25.1



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

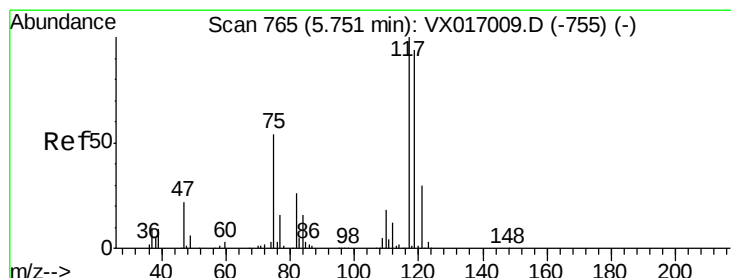
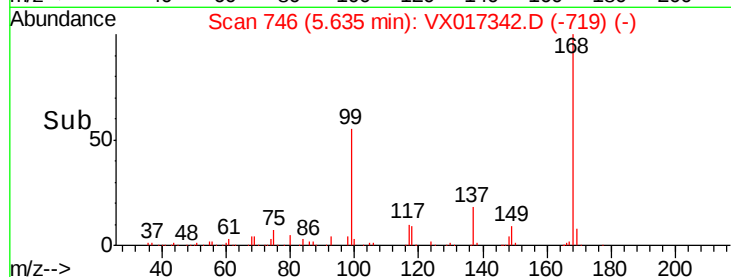
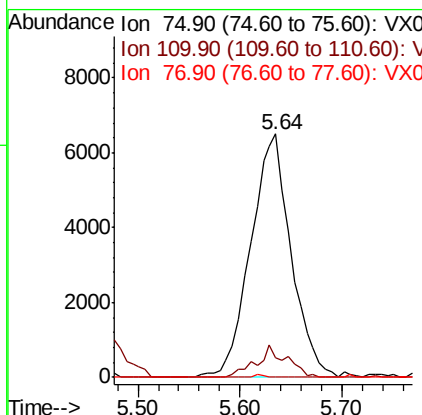
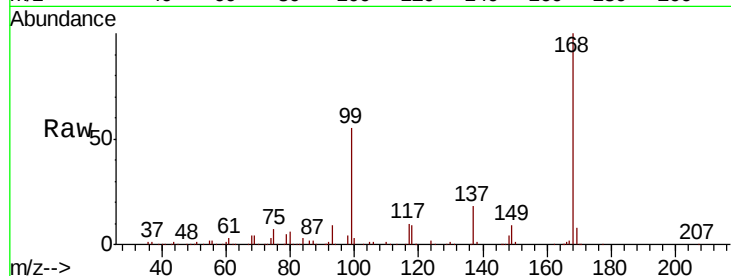




#36
 1,1-Dichloropropene
 Concen: 4.405 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX017342.D
 Acq: 10 Jul 2020 17:50

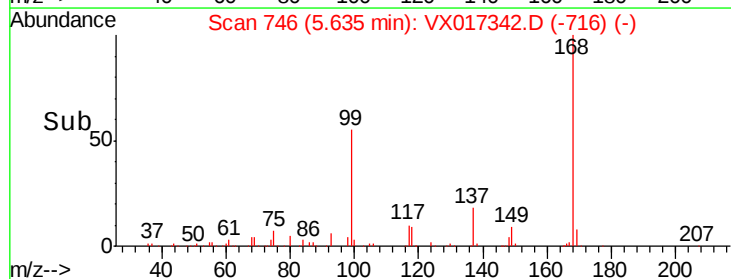
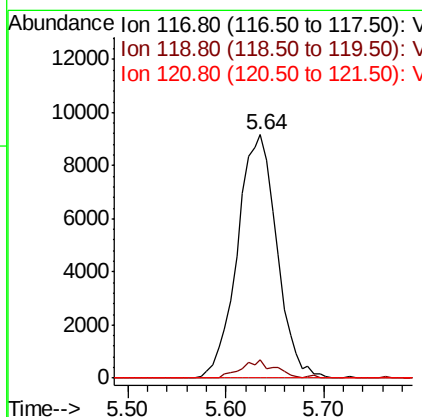
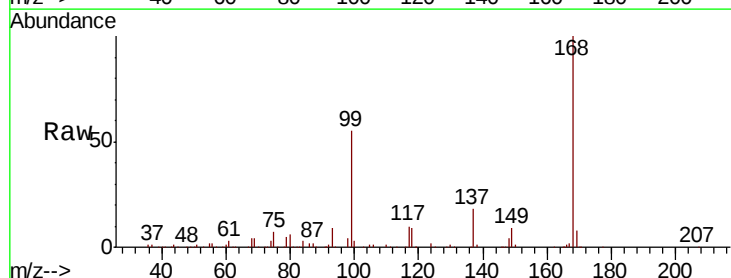
Instrument :
 MSVOA_X
 ClientSampleId :

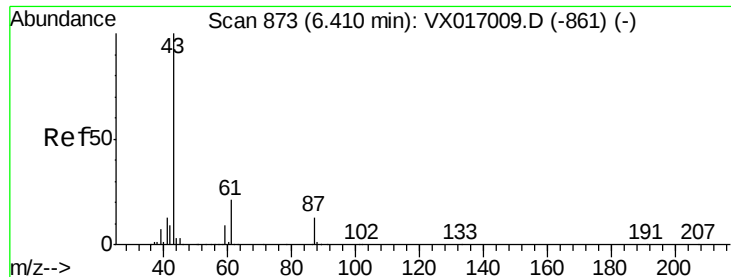
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.9	18.1	54.1#
77	0.3	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 5.730 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. -0.12 min
 Lab File: VX017342.D
 Acq: 10 Jul 2020 17:50

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.4	75.4	113.0#
121	0.0	23.8	35.6#



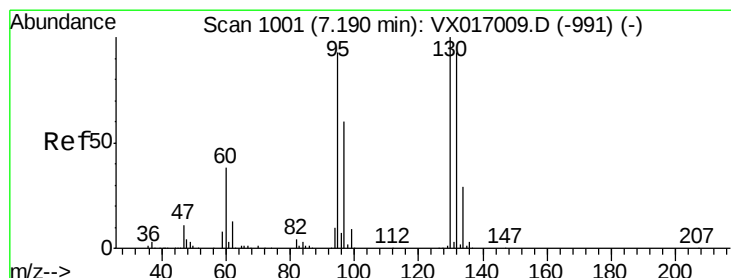
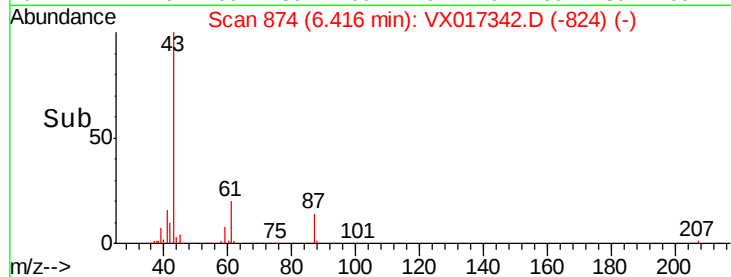
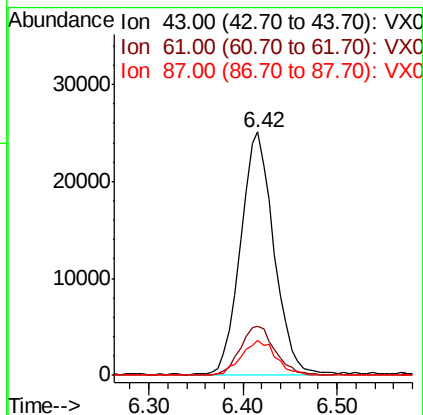
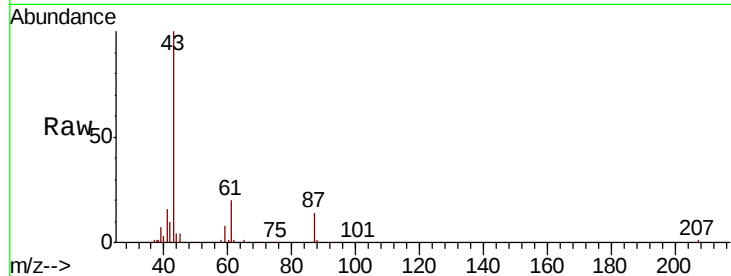


#43

Isopropyl Acetate
 Concen: 9.049 ug/l
 RT: 6.42 min Scan# 874
 Delta R.T. 0.01 min
 Lab File: VX017342.D
 Acq: 10 Jul 2020 17:50

Instrument :
 MSVOA_X
 ClientSampleId :

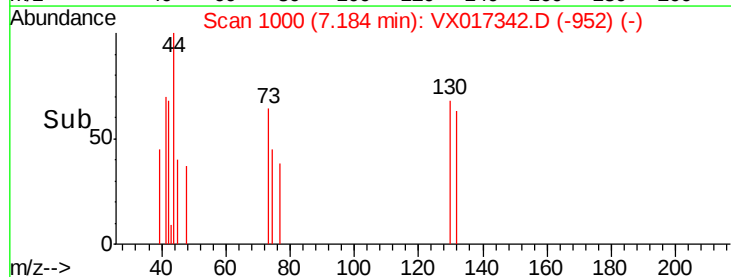
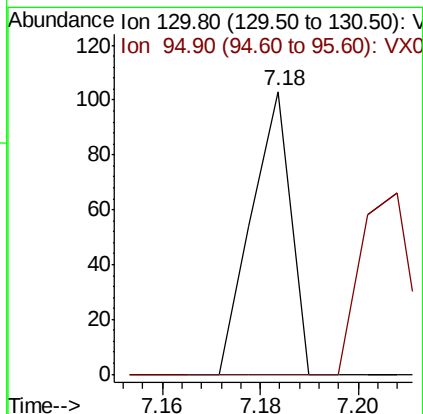
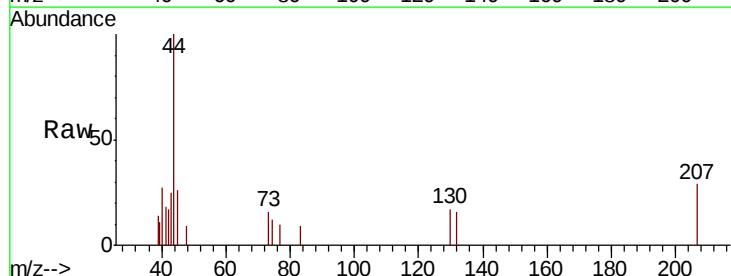
Tot Ion: 43 Resp: 61730
 Ion Ratio Lower Upper
 43 100
 61 21.0 16.2 24.2
 87 15.1 10.7 16.1

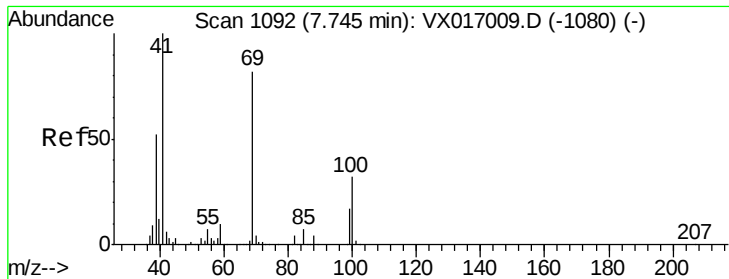


#44

Trichloroethene
 Concen: Below Cal
 RT: 7.18 min Scan# 1000
 Delta R.T. -0.01 min
 Lab File: VX017342.D
 Acq: 10 Jul 2020 17:50

Tgt Ion: 130 Resp: 57
 Ion Ratio Lower Upper
 130 100
 95 0.0 0.0 185.0

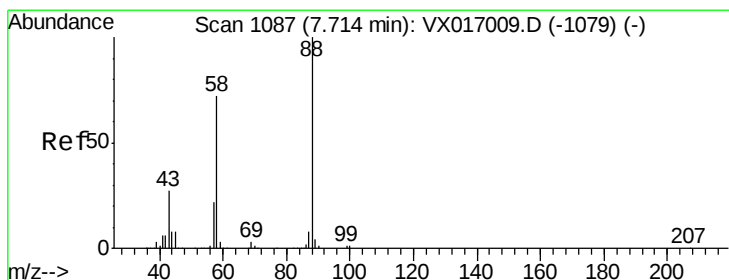
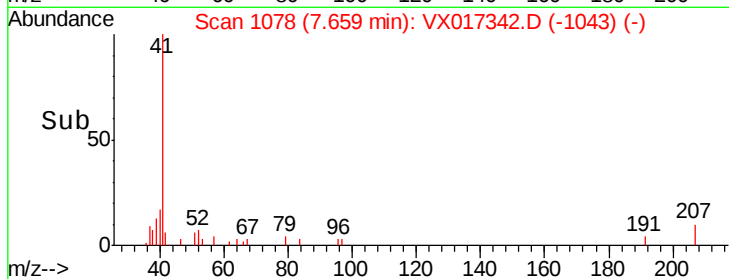
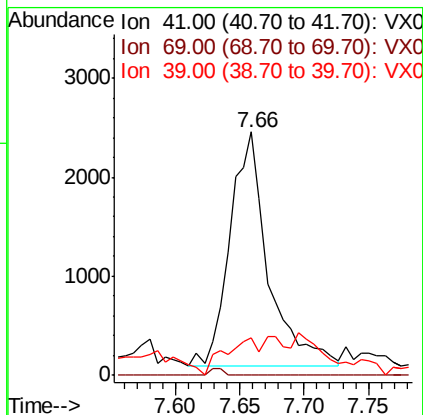
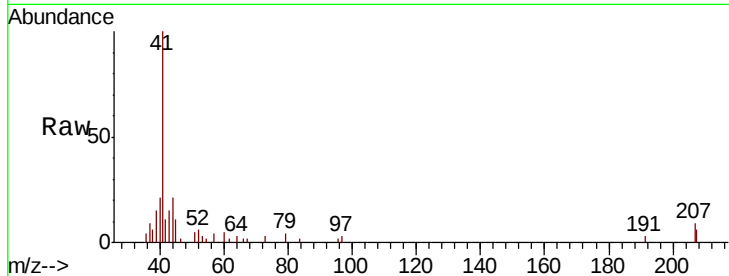




#48
Methvl methacrylate
Concen: 1.500 ug/l
RT: 7.66 min Scan# 1078
Delta R.T. -0.09 min
Lab File: VX017342.D
Acq: 10 Jul 2020 17:50

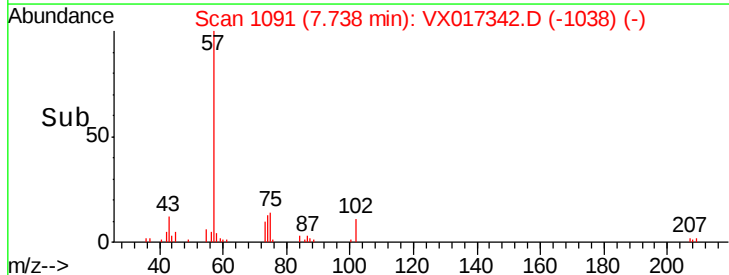
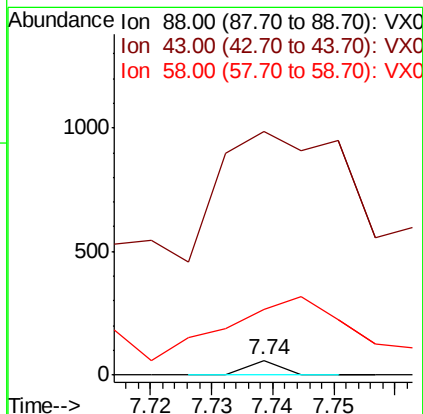
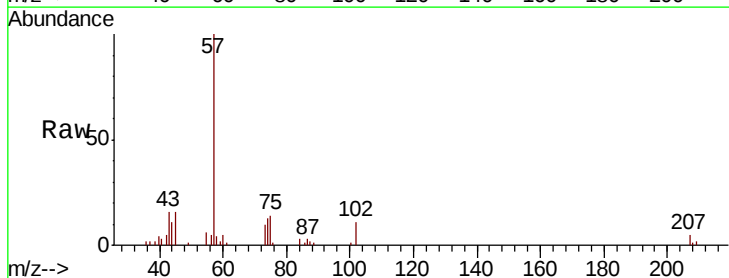
Instrument :
MSVOA_X
ClientSampleId :

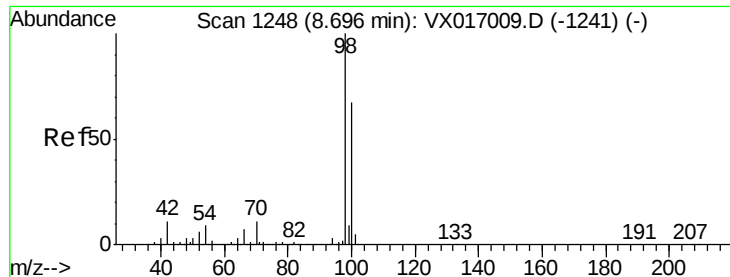
Tot Ion: 41 Resp: 4861
Ion Ratio Lower Upper
41 100
69 0.0 65.8 98.8#
39 0.0 42.5 63.7#



#49
1,4-Dioxane
Concen: 0.300 ug/l
RT: 7.74 min Scan# 1091
Delta R.T. 0.02 min
Lab File: VX017342.D
Acq: 10 Jul 2020 17:50

Tgt Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 0.0 25.8 38.8#
58 2309.1 54.8 82.2#





#50

Toluene-d8

Concen: 52.956 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017342.D

Acq: 10 Jul 2020 17:50

Instrument :

MSVOA_X

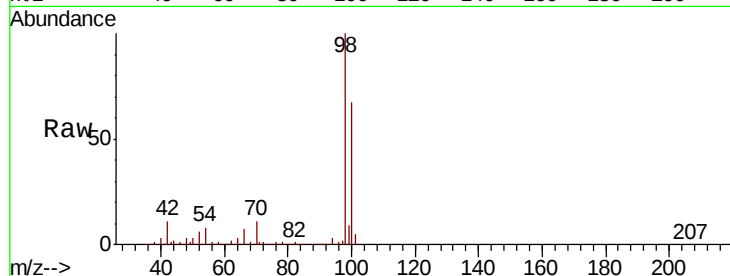
ClientSampleId :

Tot Ion: 98 Resp: 530292

Ion Ratio Lower Upper

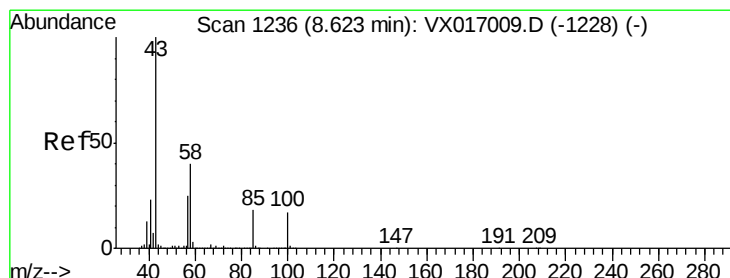
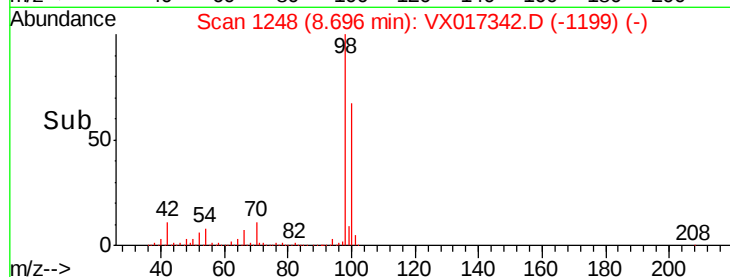
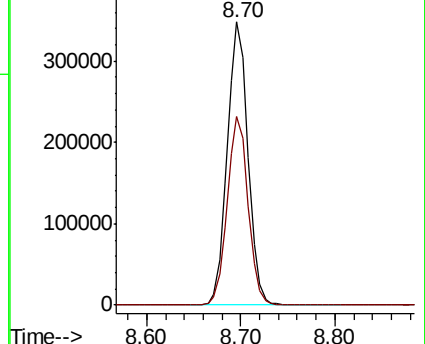
98 100

100 66.8 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 10.559 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.03 min

Lab File: VX017342.D

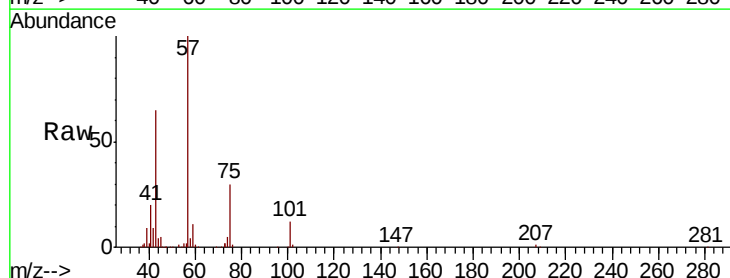
Acq: 10 Jul 2020 17:50

Tgt Ion: 43 Resp: 42938

Ion Ratio Lower Upper

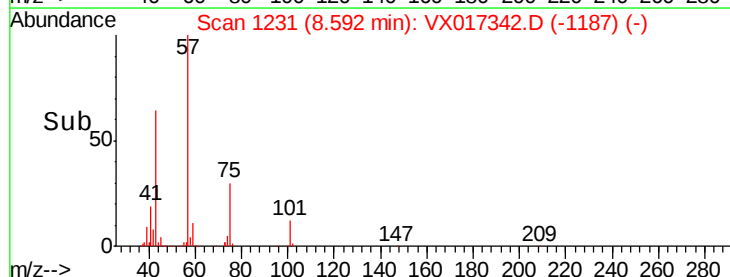
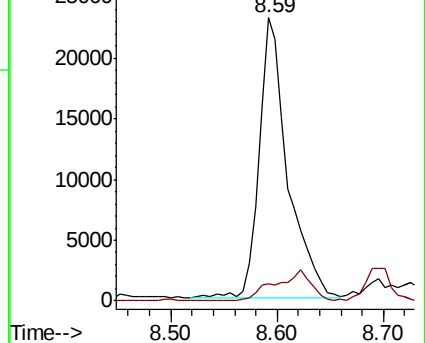
43 100

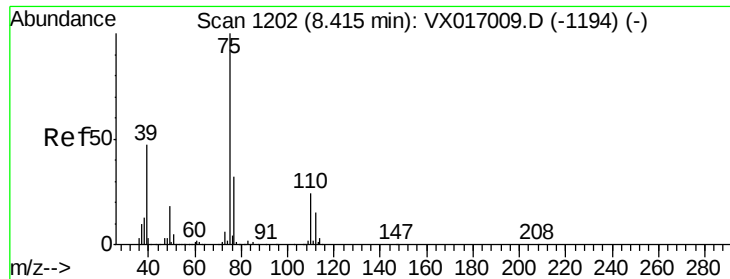
58 0.0 31.9 47.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



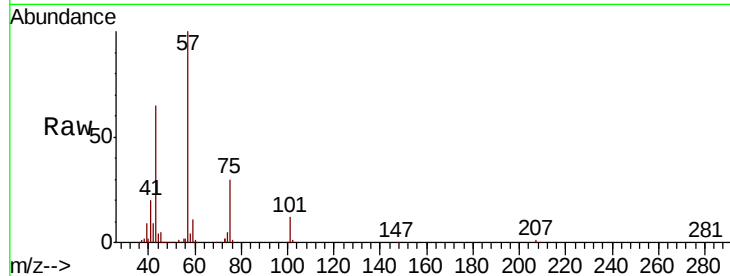


#54

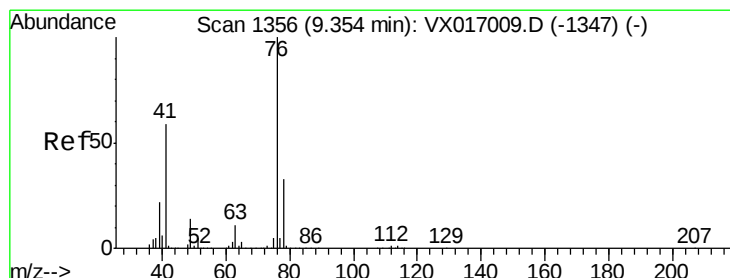
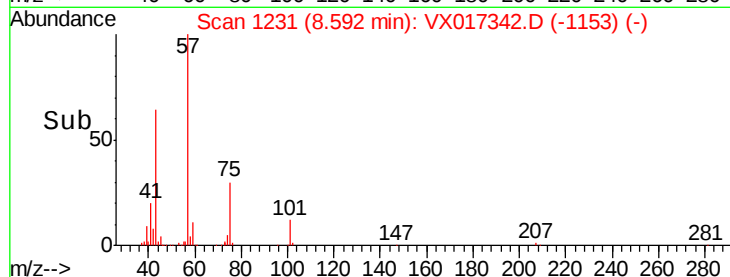
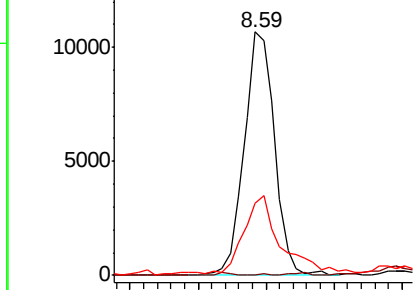
cis-1,3-Dichloropropene
 Concen: 3.279 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX017342.D
 Acq: 10 Jul 2020 17:50

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion: 75 Resp: 16659
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 28.8 37.4 56.2#



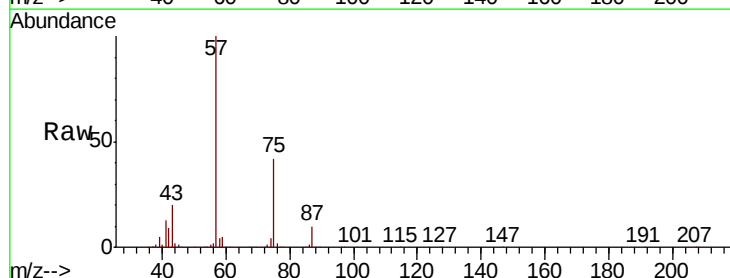
Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0



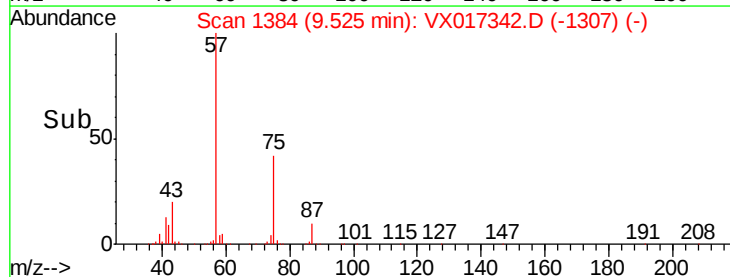
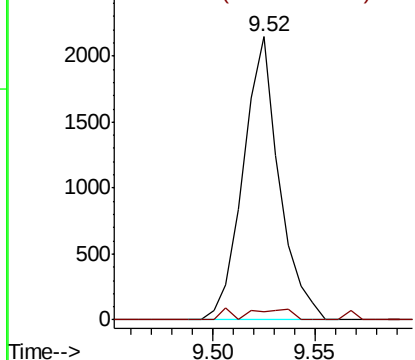
#57

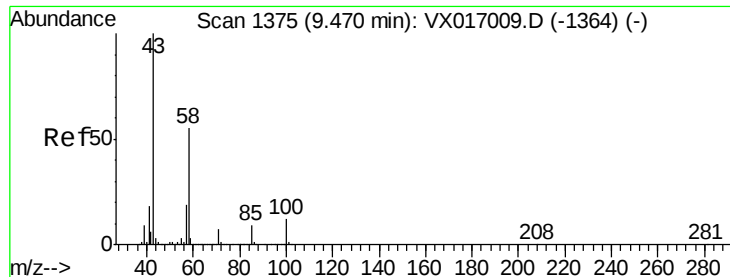
1,3-Dichloropropane
 Concen: 0.513 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.17 min
 Lab File: VX017342.D
 Acq: 10 Jul 2020 17:50

Tgt Ion: 76 Resp: 2633
 Ion Ratio Lower Upper
 76 100
 78 3.9 25.9 38.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0
 Ion 77.90 (77.60 to 78.60): VX0

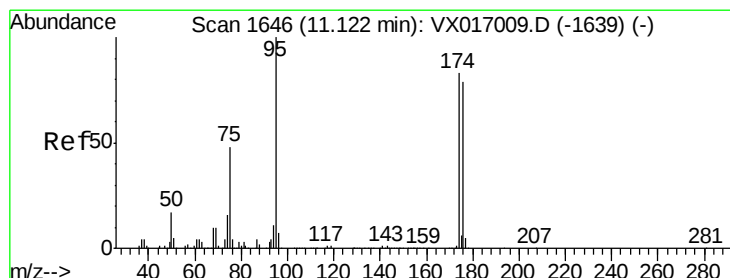
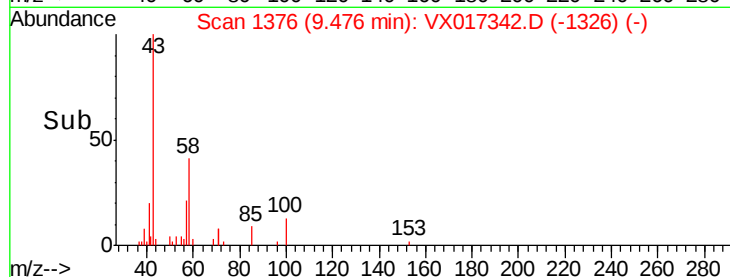
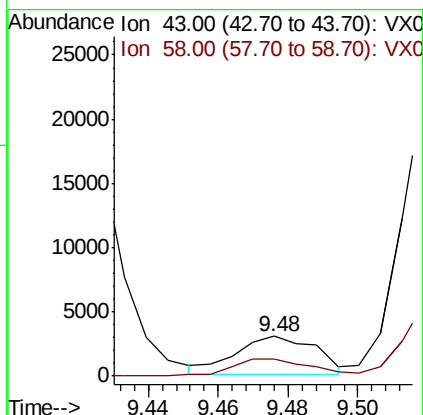
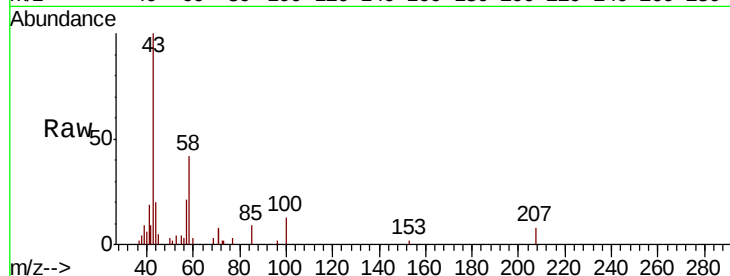




#59
2-Hexanone
Concen: 1.541 ug/l
RT: 9.48 min Scan# 1376
Delta R.T. 0.01 min
Lab File: VX017342.D
Acq: 10 Jul 2020 17:50

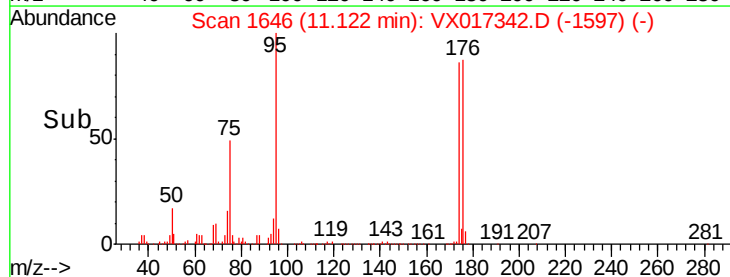
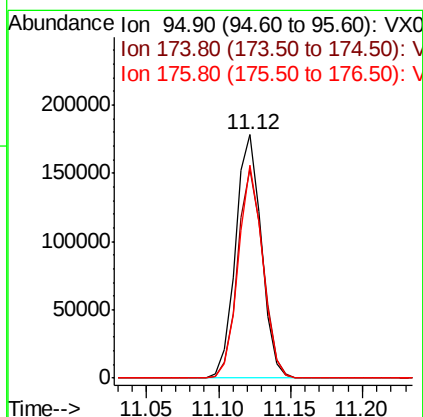
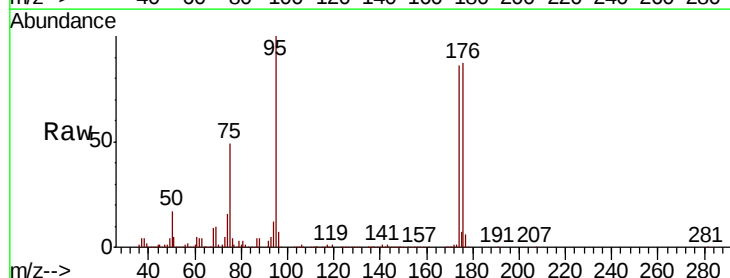
Instrument :
MSVOA_X
ClientSampled :

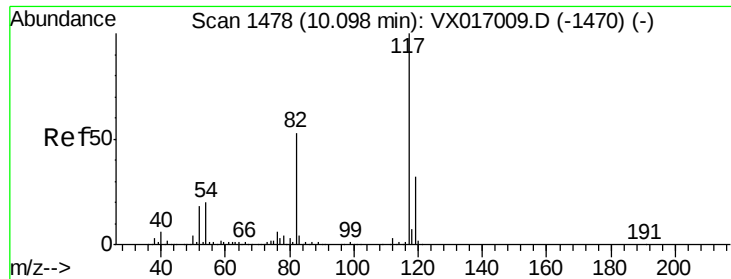
Tot Ion: 43 Resp: 4576
Ion Ratio Lower Upper
43 100
58 47.8 27.9 83.6



#62
4-Bromofluorobenzene
Concen: 57.089 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017342.D
Acq: 10 Jul 2020 17:50

Tgt Ion: 95 Resp: 223475
Ion Ratio Lower Upper
95 100
174 84.7 0.0 164.0
176 82.8 0.0 157.6

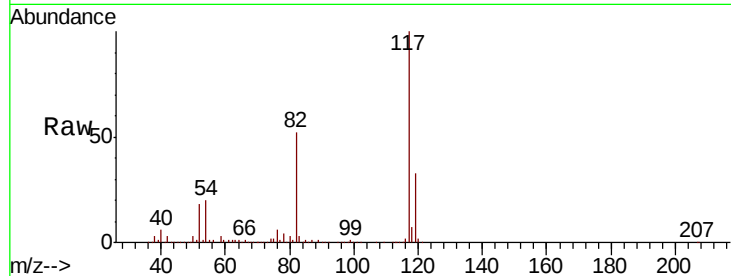




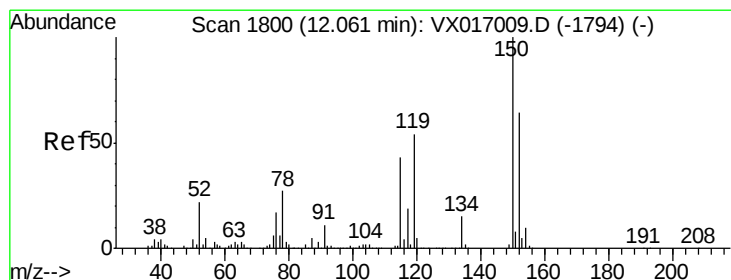
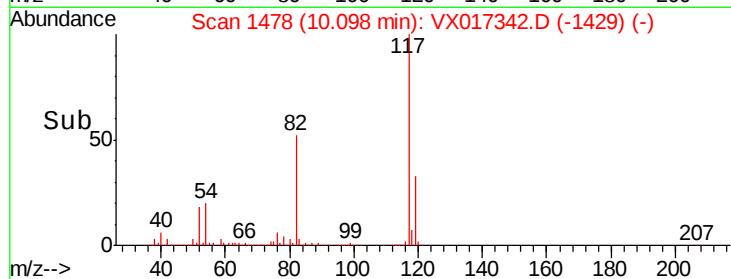
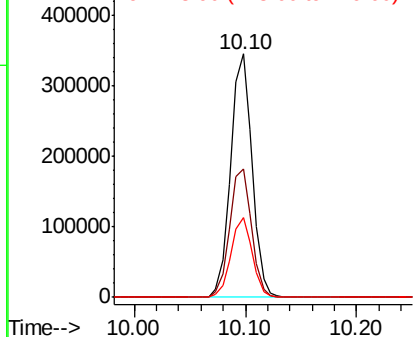
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017342.D
Acq: 10 Jul 2020 17:50

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 457865
Ion Ratio Lower Upper
117 100
82 52.5 42.6 63.8
119 33.0 25.4 38.2

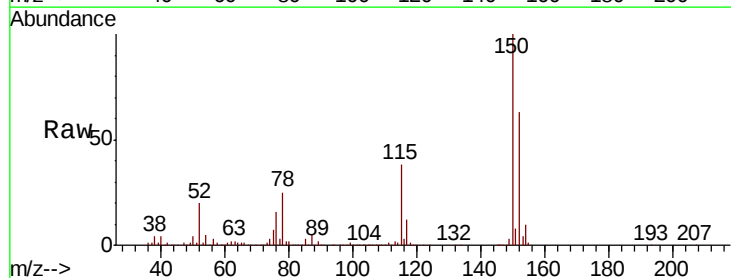


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

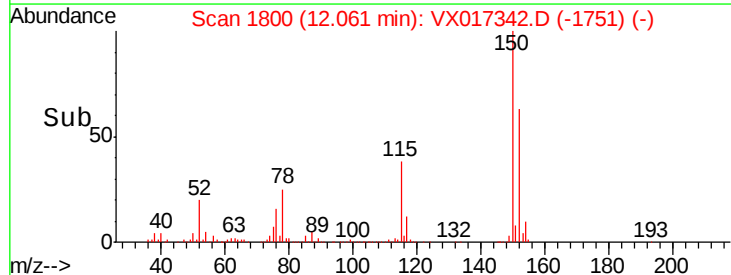
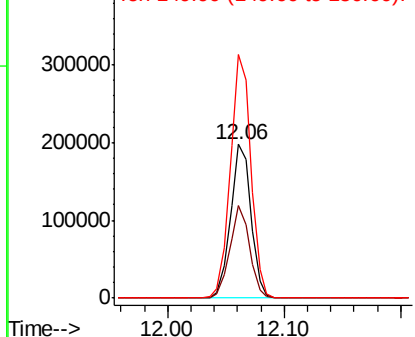


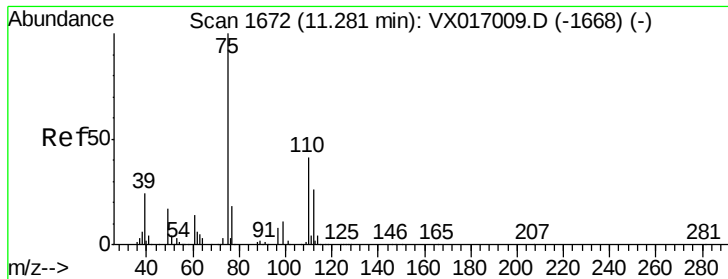
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017342.D
Acq: 10 Jul 2020 17:50

Tgt Ion:152 Resp: 241924
Ion Ratio Lower Upper
152 100
115 58.1 40.9 122.7
150 158.7 0.0 351.6



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: 23.567 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017342.D

Acq: 10 Jul 2020 17:50

Instrument :

MSVOA_X

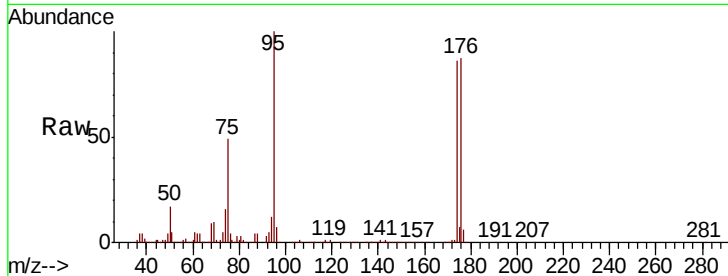
ClientSampleId :

Tot Ion: 75 Resp: 112116

Ion Ratio Lower Upper

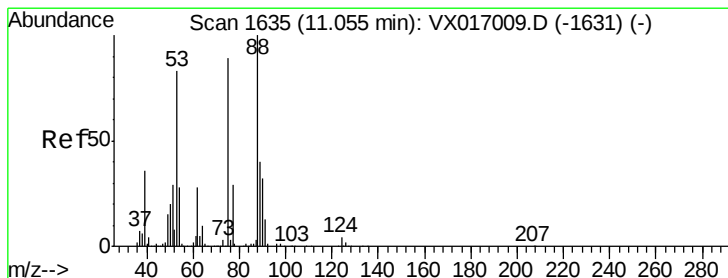
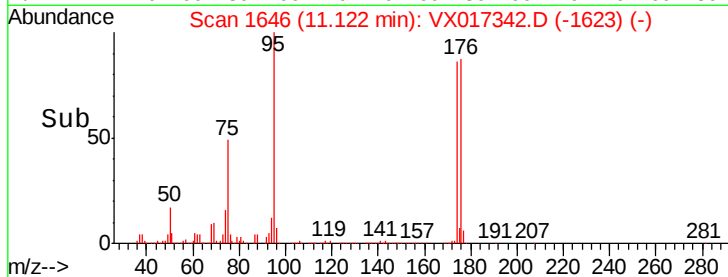
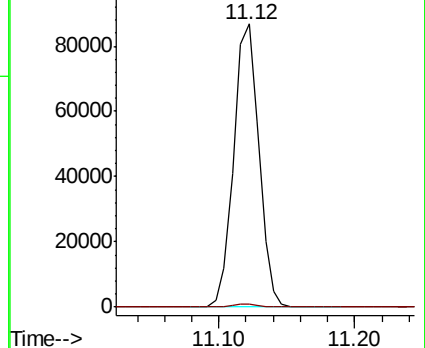
75 100

77 1.2 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 61.031 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017342.D

Acq: 10 Jul 2020 17:50

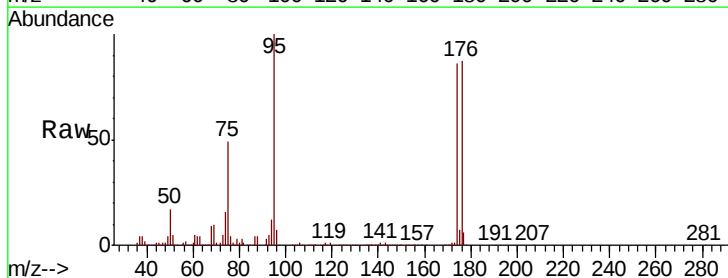
Tgt Ion: 75 Resp: 112116

Ion Ratio Lower Upper

75 100

53 0.3 72.4 108.6#

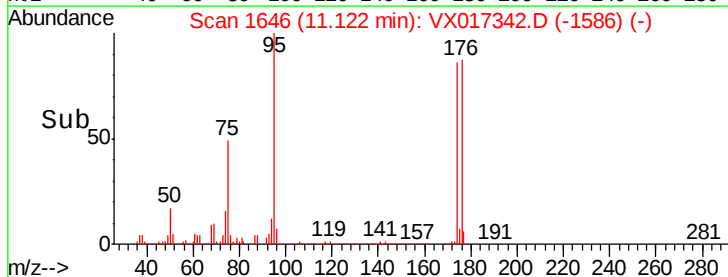
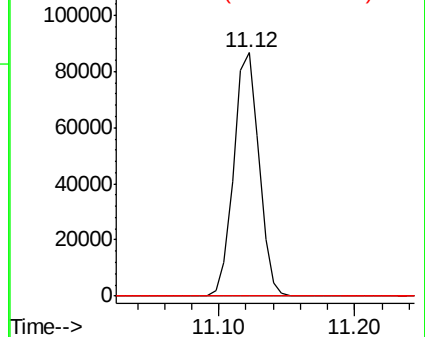
89 0.0 37.0 55.4#

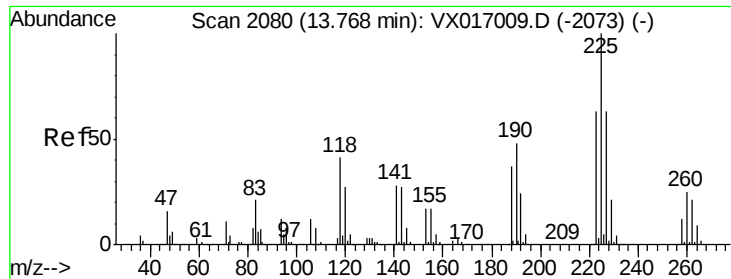


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#94

Hexachlorobutadiene

Concen: 0.916 ug/l

RT: 13.76 min Scan# 2078

Delta R.T. -0.01 min

Lab File: VX017342.D

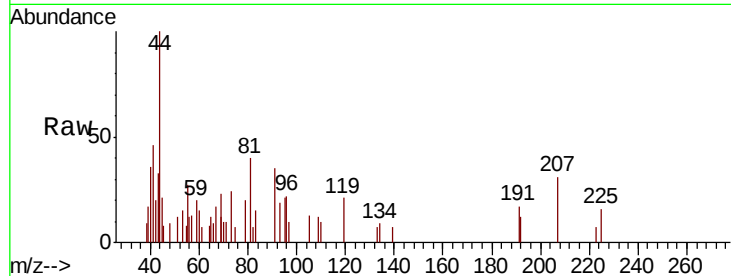
Acq: 10 Jul 2020 17:50

Instrument :

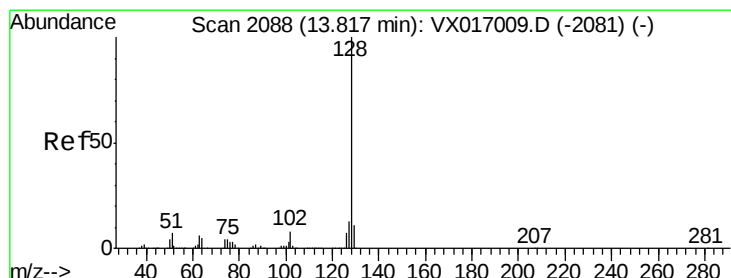
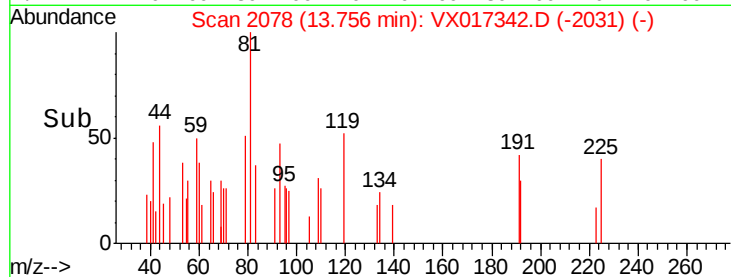
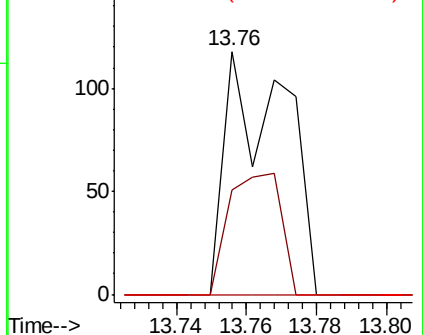
MSVOA_X

ClientSampled :

Tot Ion:	225	Resp:	139
Ion	Ratio	Lower	Upper
225	100		
223	43.9	32.5	97.5
227	0.0	33.1	99.2#



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.464 ug/l

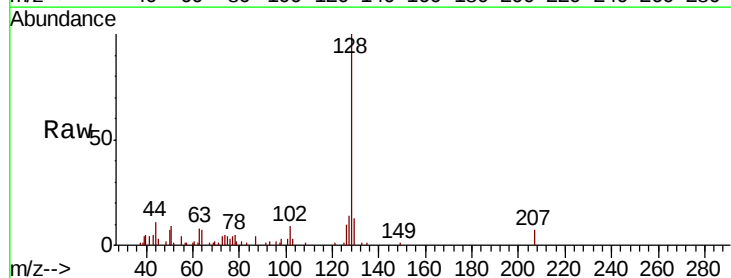
RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX017342.D

Acq: 10 Jul 2020 17:50

Tgt Ion:	128	Resp:	7115
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.2	15.4
129	12.3	8.7	13.1



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

