

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070920\
 Data File : VX017320.D
 Acq On : 09 Jul 2020 19:58
 Operator : JC/SP
 Sample : L3217-14 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 E3-41-BOILER-ROOM

Quant Time: Jul 10 07:07:30 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	5.63	168	243923	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	409377	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	426489	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	226259	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	159277	52.97	ug/l	0.00
Spiked Amount			Recovery	=	105.94%	
35) Dibromofluoromethane	5.47	113	137792	53.21	ug/l	0.00
Spiked Amount			Recovery	=	106.42%	
50) Toluene-d8	8.70	98	499051	52.12	ug/l	0.00
Spiked Amount			Recovery	=	104.24%	
62) 4-Bromofluorobenzene	11.12	95	205217	54.82	ug/l	0.00
Spiked Amount			Recovery	=	109.64%	

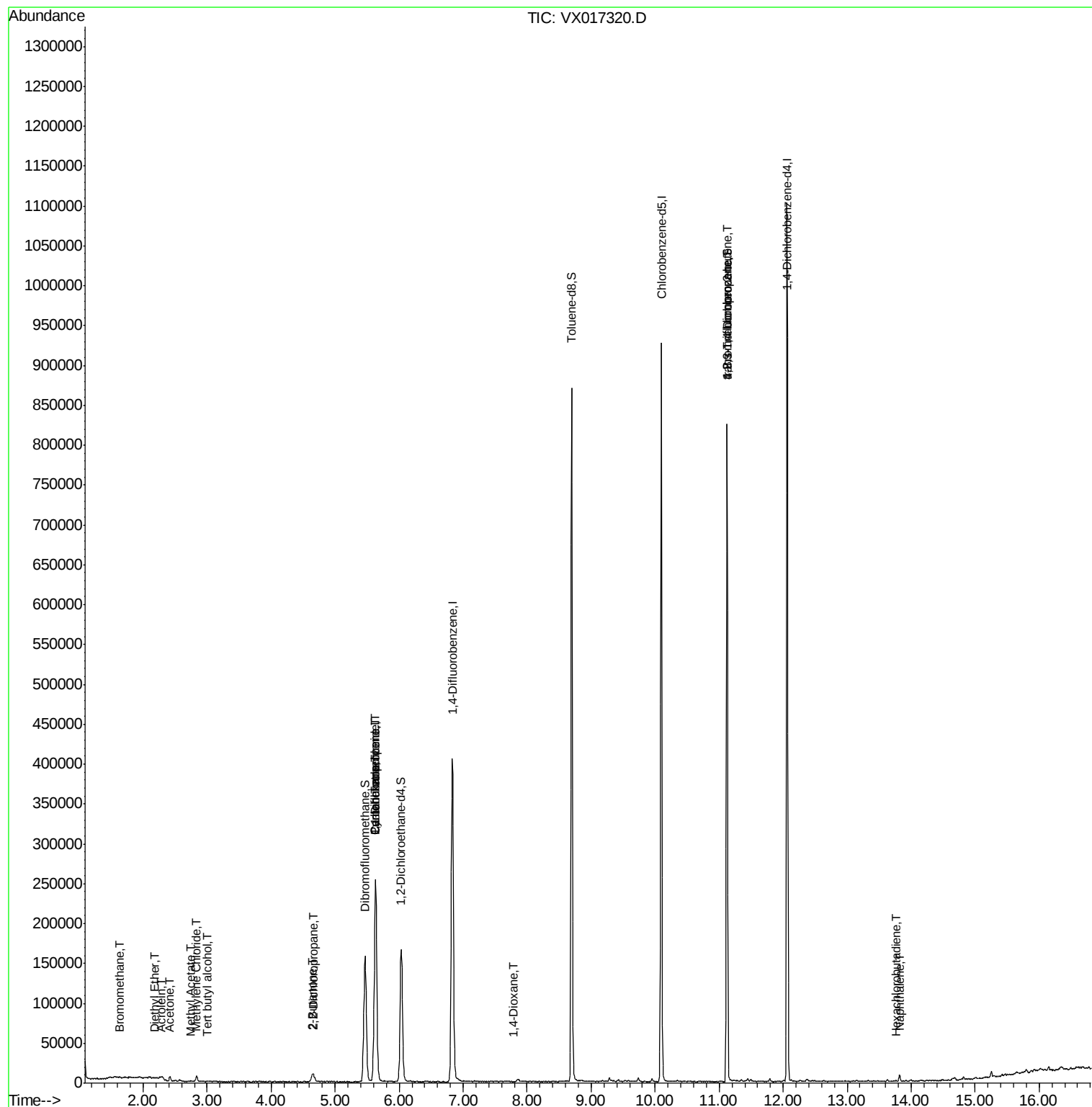
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	413	0.295	ug/l #	68
8) Diethyl Ether	2.18	74	241	0.547	ug/l #	34
11) Tert butyl alcohol	3.01	59	467	0.814	ug/l #	77
13) Acrolein	2.28	56	492	1.435	ug/l #	43
16) Acetone	2.42	43	5600	4.978	ug/l	95
18) Methyl Acetate	2.75	43	871	0.297	ug/l #	63
20) Methylene Chloride	2.83	84	2866	0.333	ug/l #	91
25) 2-Butanone	4.65	43	1084	0.578	ug/l #	75
26) 2,2-Dichloropropane	4.66	77	929	0.223	ug/l #	53
31) Cyclohexane	5.63	56	4881	1.202	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	17685	4.571	ug/l #	50
38) Carbon Tetrachloride	5.63	117	23848	5.596	ug/l #	17
44) Trichloroethene	7.20	130	297	Below Cal		55
49) 1,4-Dioxane	7.79	88	39	0.555	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	101820	22.885	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	101820	59.263	ug/l #	13
88) 1,4-Dichlorobenzene	12.01	146	433	Below Cal		84
94) Hexachlorobutadiene	13.76	225	109	0.904	ug/l #	46
95) Naphthalene	13.82	128	4523	0.315	ug/l #	94

(#) = 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
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017320.D

Acq: 09 Jul 2020 19:58

Instrument :

MSVOA_X

ClientSampleId :

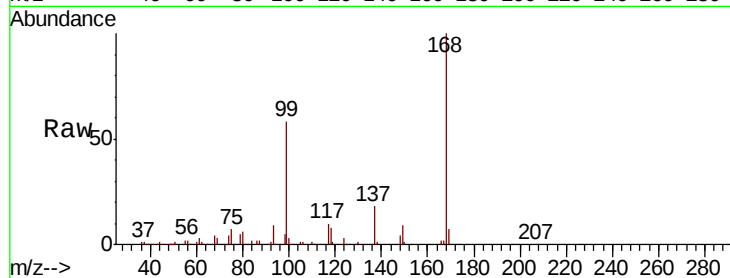
E3-41-BOILER-ROOM

Tot Ion:168 Resp: 243923

Ion Ratio Lower Upper

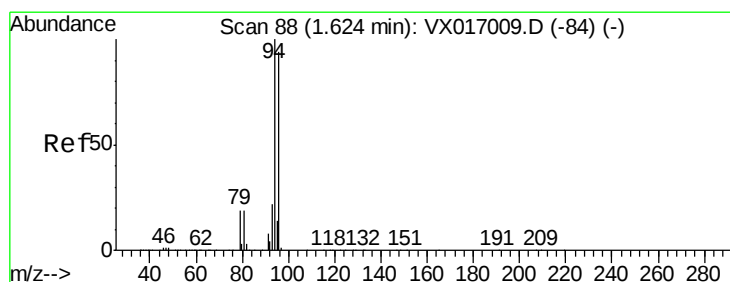
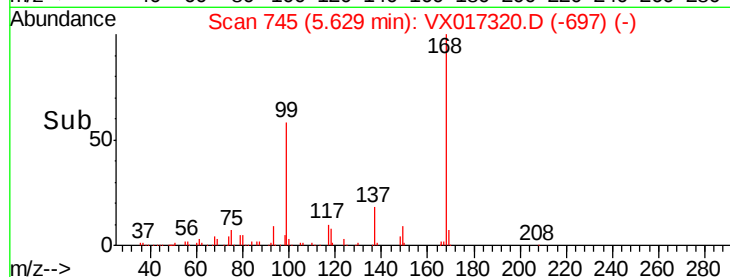
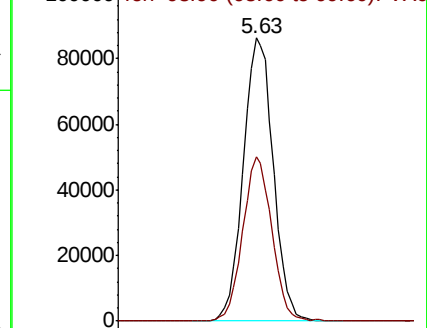
168 100

99 58.1 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.295 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX017320.D

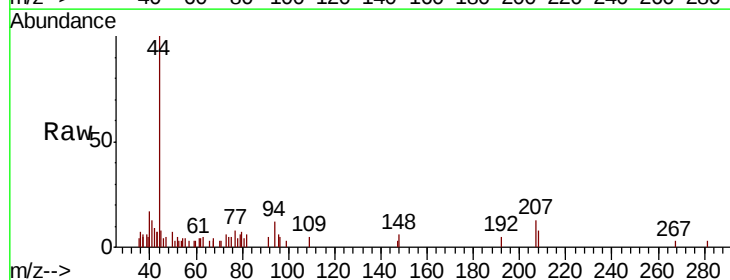
Acq: 09 Jul 2020 19:58

Tgt Ion: 94 Resp: 413

Ion Ratio Lower Upper

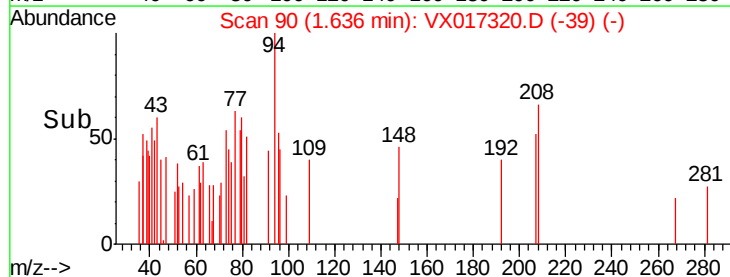
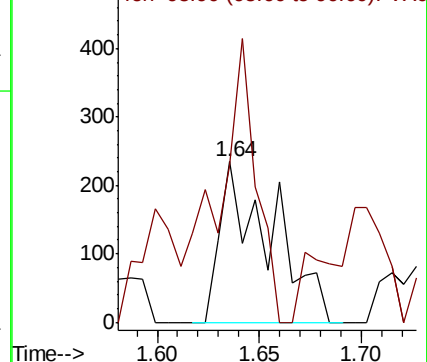
94 100

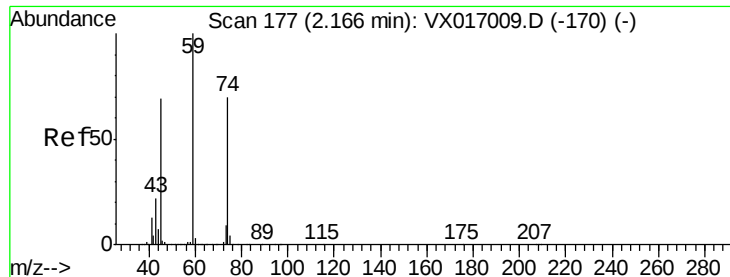
96 63.0 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#8

Diethyl Ether

Concen: 0.547 ug/l

RT: 2.18 min Scan# 179

Delta R.T. 0.01 min

Lab File: VX017320.D

Acq: 09 Jul 2020 19:58

Instrument :

MSVOA_X

ClientSampleId :

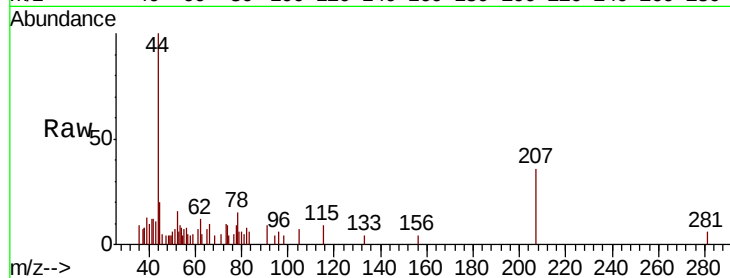
E3-41-BOILER-ROOM

Tot Ion: 74 Resp: 241

Ion Ratio Lower Upper

74 100

45 33.6 49.8 149.3#



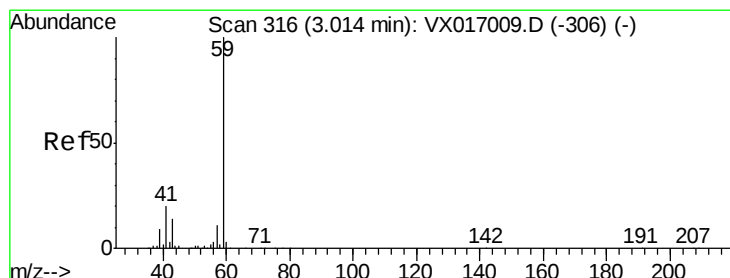
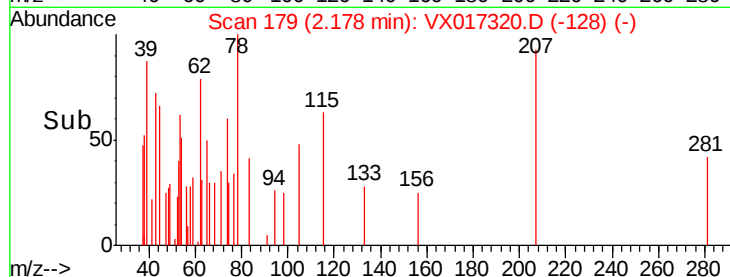
Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.18

2.14 2.16 2.18 2.20

Time-->



#11

Tert butyl alcohol

Concen: 0.814 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX017320.D

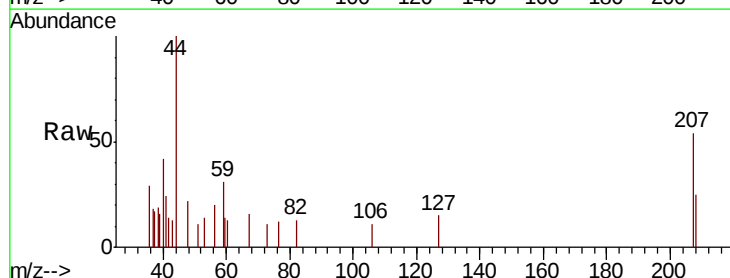
Acq: 09 Jul 2020 19:58

Tgt Ion: 59 Resp: 467

Ion Ratio Lower Upper

59 100

57 18.8 8.2 12.2#



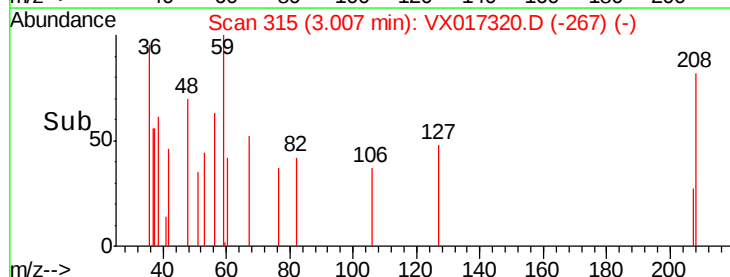
Abundance Ion 59.00 (58.70 to 59.70): VX0

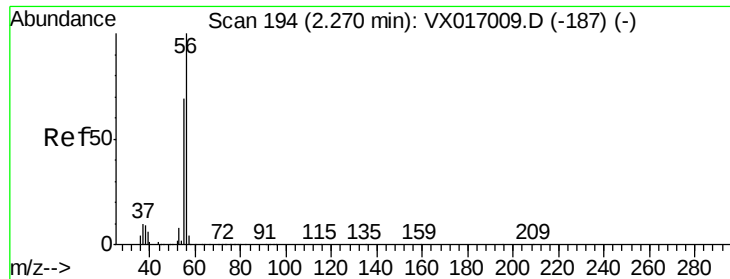
Ion 57.00 (56.70 to 57.70): VX0

3.01

2.95 3.00 3.05

Time-->

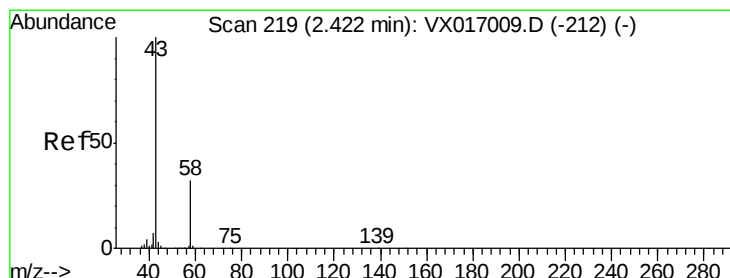
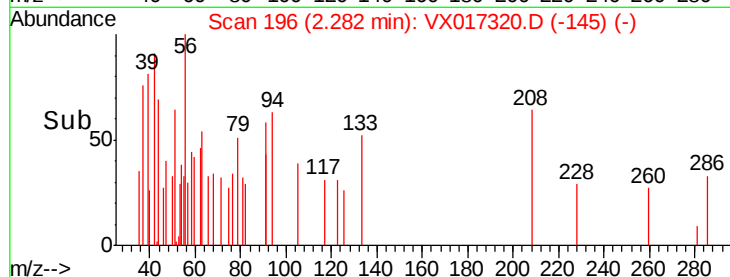
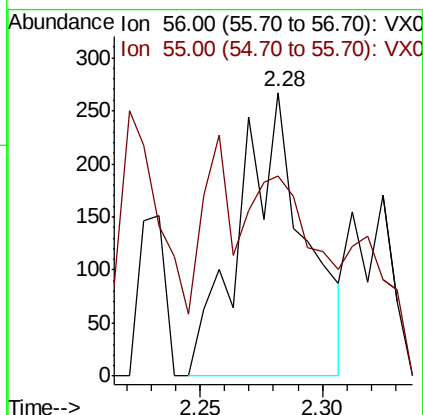
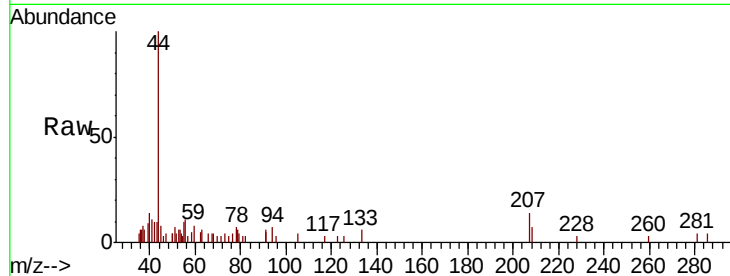




#13
Acrolein
Concen: 1.435 ug/l
RT: 2.28 min Scan# 196
Delta R.T. 0.01 min
Lab File: VX017320.D
Acq: 09 Jul 2020 19:58

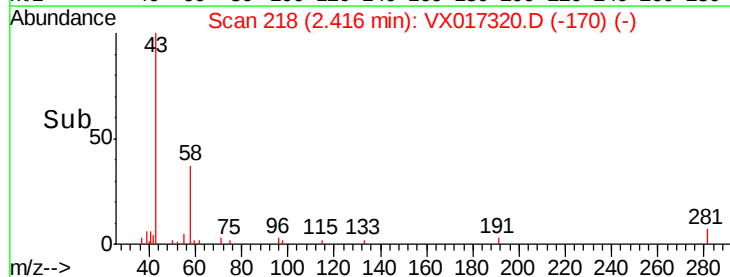
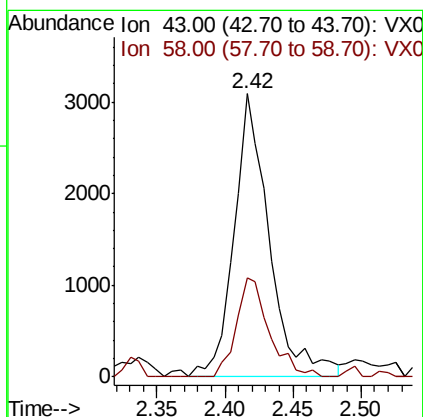
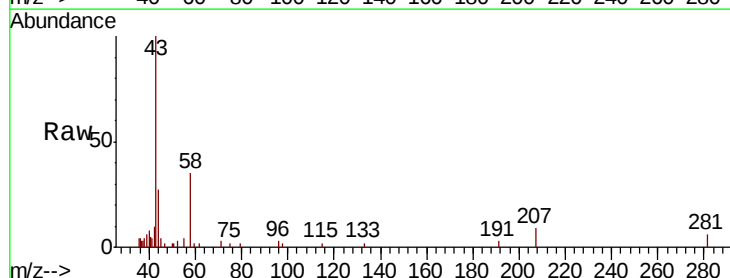
Instrument :
MSVOA_X
ClientSampleId :
E3-41-BOILER-ROOM

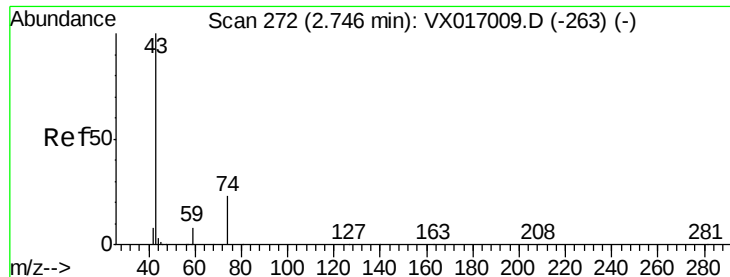
Tot Ion: 56 Resp: 492
Ion Ratio Lower Upper
56 100
55 23.4 55.7 83.5#



#16
Acetone
Concen: 4.978 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX017320.D
Acq: 09 Jul 2020 19:58

Tgt Ion: 43 Resp: 5600
Ion Ratio Lower Upper
43 100
58 35.0 25.7 38.5

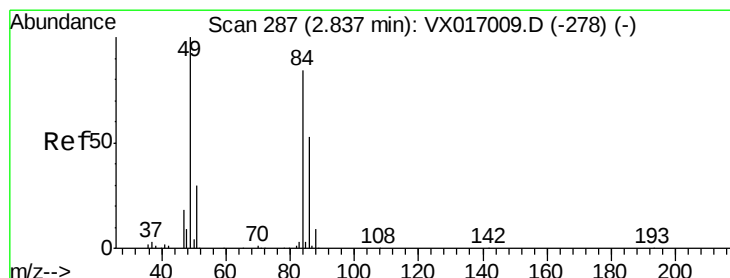
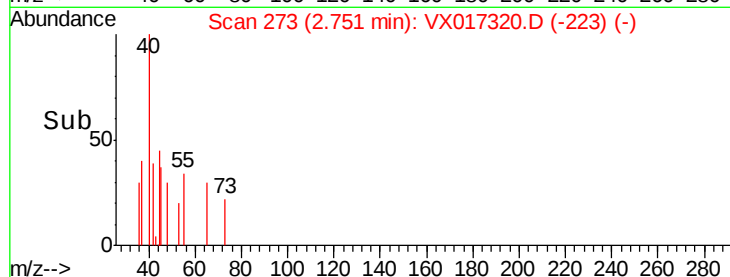
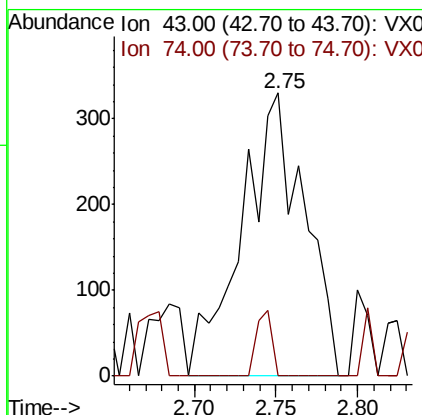
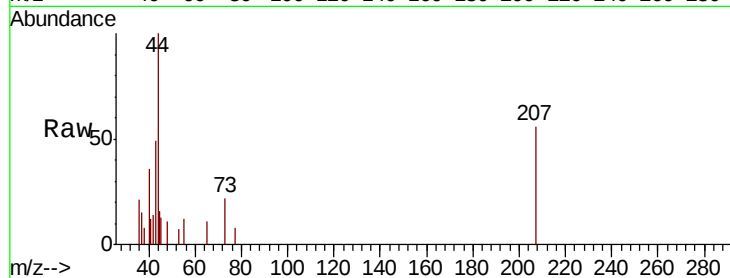




#18
Methyl Acetate
Concen: 0.297 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX017320.D
Acq: 09 Jul 2020 19:58

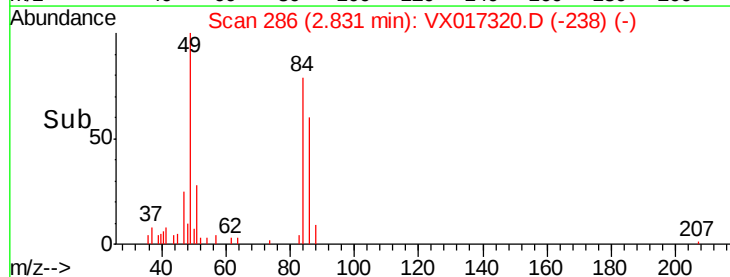
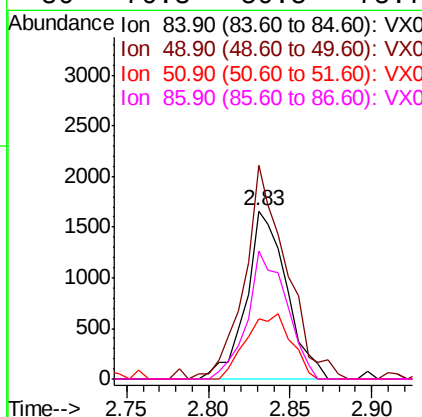
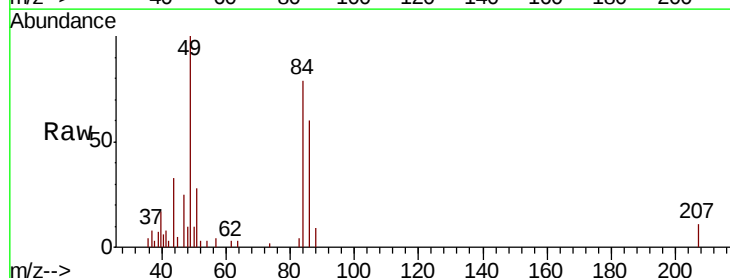
Instrument :
MSVOA_X
ClientSampleId :
E3-41-BOILER-ROOM

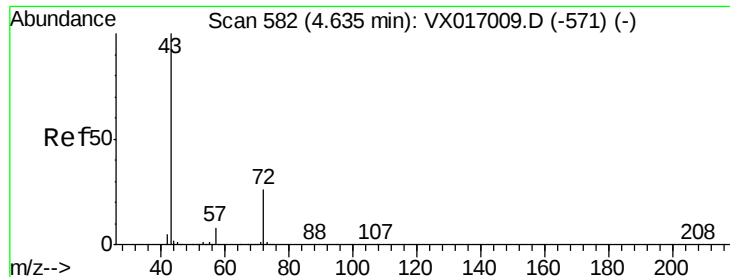
Tot Ion: 43 Resp: 871
Ion Ratio Lower Upper
43 100
74 6.0 19.3 28.9#



#20
Methylene Chloride
Concen: 0.333 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX017320.D
Acq: 09 Jul 2020 19:58

Tgt Ion: 84 Resp: 2866
Ion Ratio Lower Upper
84 100
49 127.3 94.7 142.1
51 35.9 28.6 42.8
86 76.3 50.5 75.7#





#25

2-Butanone

Concen: 0.578 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX017320.D

Acq: 09 Jul 2020 19:58

Instrument :

MSVOA_X

ClientSampleId :

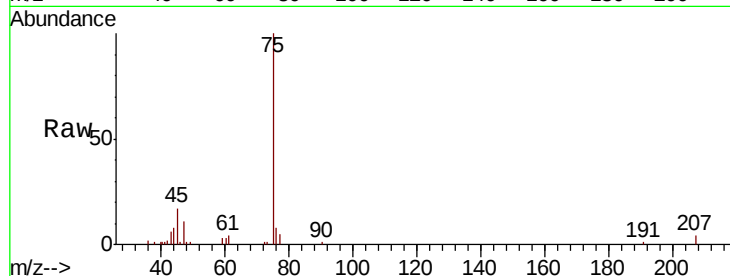
E3-41-BOILER-ROOM

Tot Ion: 43 Resp: 1084

Ion Ratio Lower Upper

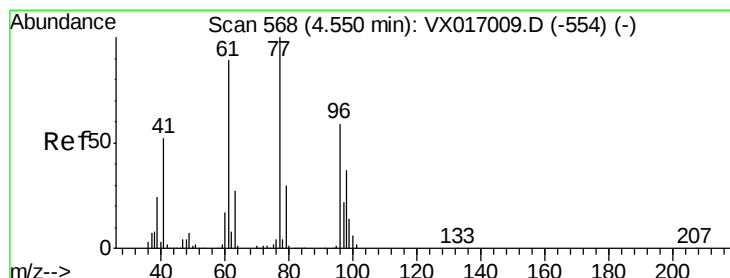
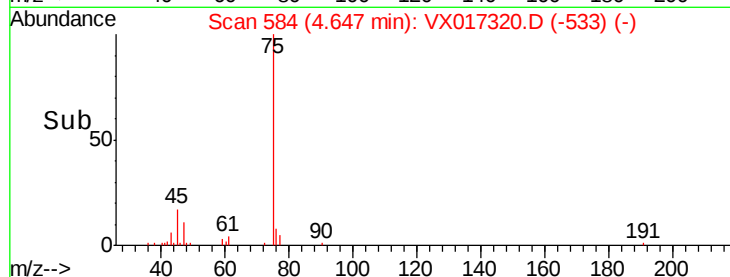
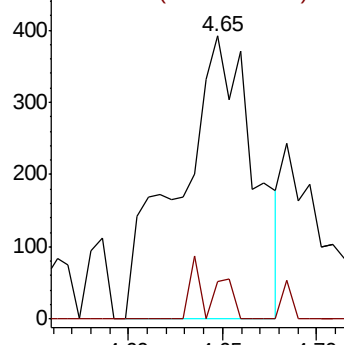
43 100

72 13.3 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 0.223 ug/l

RT: 4.66 min Scan# 586

Delta R.T. 0.11 min

Lab File: VX017320.D

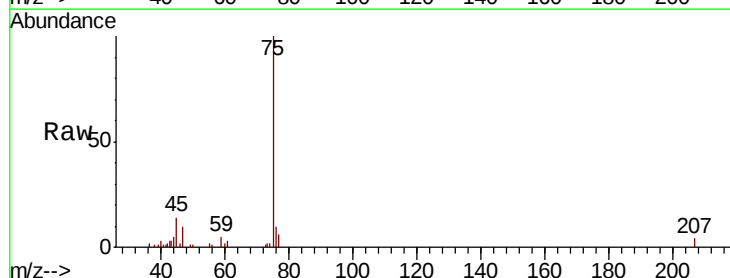
Acq: 09 Jul 2020 19:58

Tgt Ion: 77 Resp: 929

Ion Ratio Lower Upper

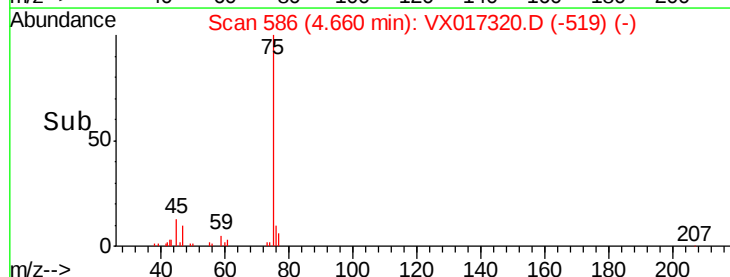
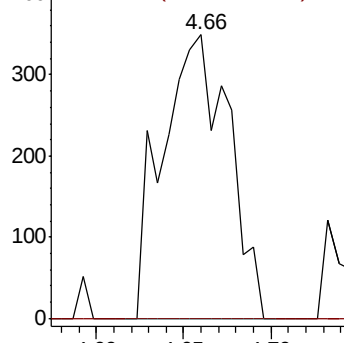
77 100

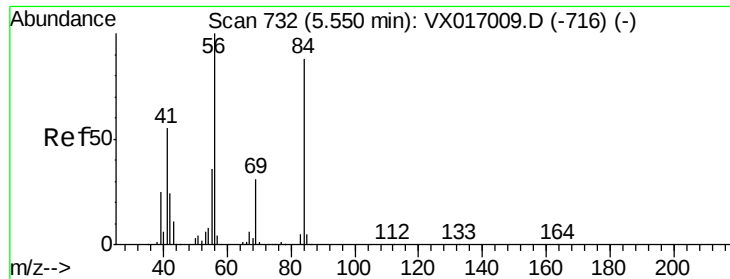
97 0.0 11.4 34.2#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

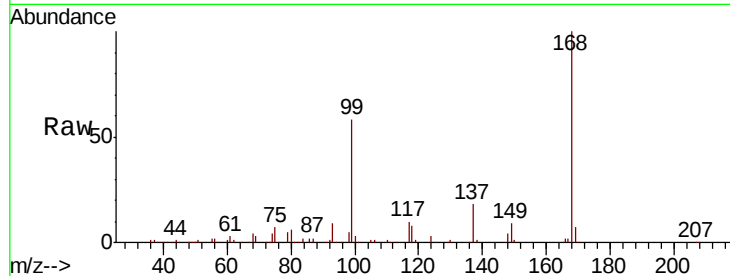




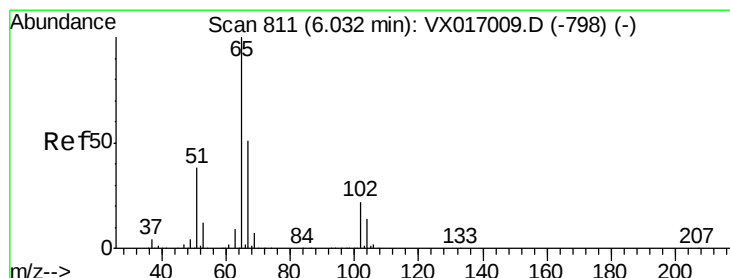
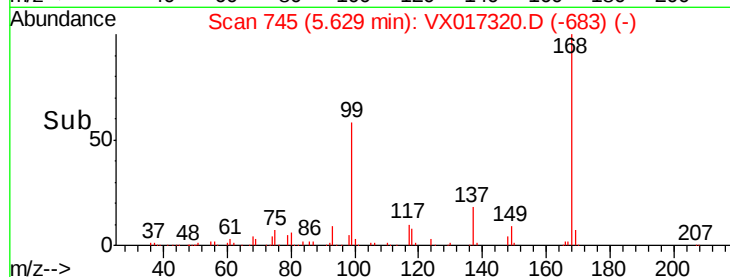
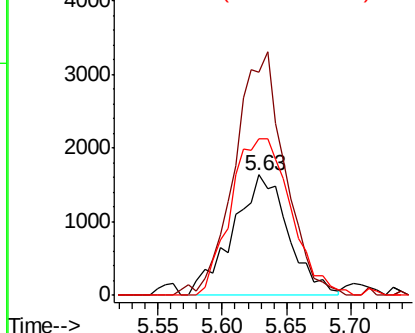
#31
Cyclohexane
Concen: 1.202 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX017320.D
Acq: 09 Jul 2020 19:58

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Tot Ion: 56 Resp: 4881
Ion Ratio Lower Upper
56 100
69 179.6 25.0 37.4#
84 130.0 69.1 103.7#

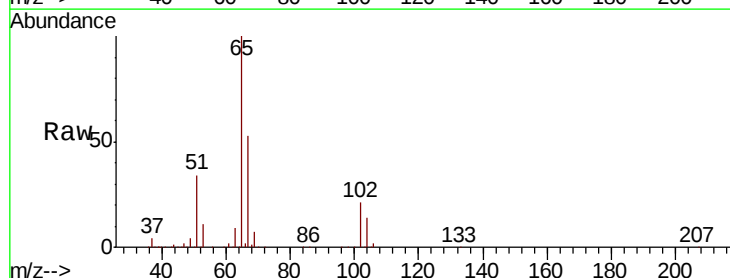


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

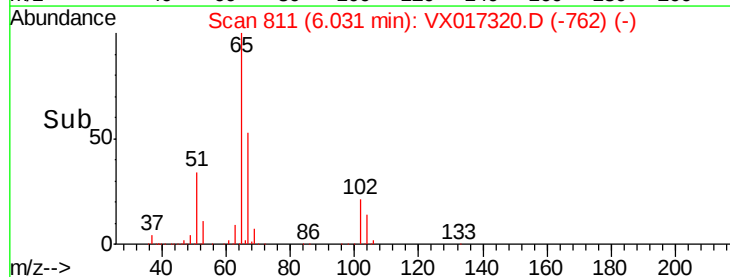
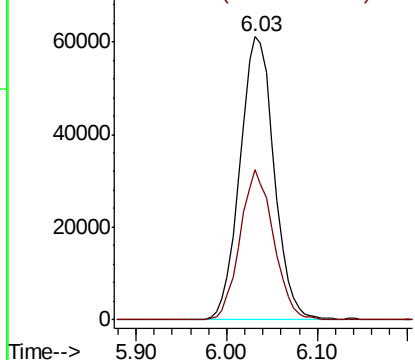


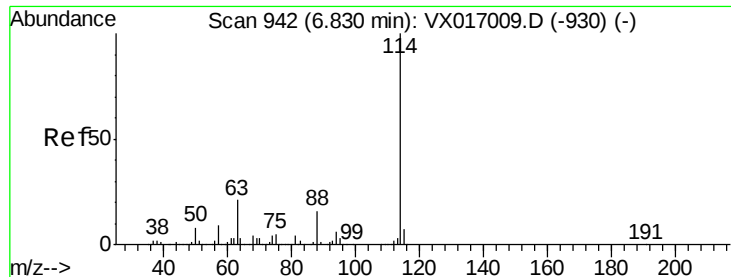
#33
1,2-Dichloroethane-d4
Concen: 52.967 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX017320.D
Acq: 09 Jul 2020 19:58

Tgt Ion: 65 Resp: 159277
Ion Ratio Lower Upper
65 100
67 52.1 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: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017320.D

Acq: 09 Jul 2020 19:58

Instrument :

MSVOA_X

ClientSampleId :

E3-41-BOILER-ROOM

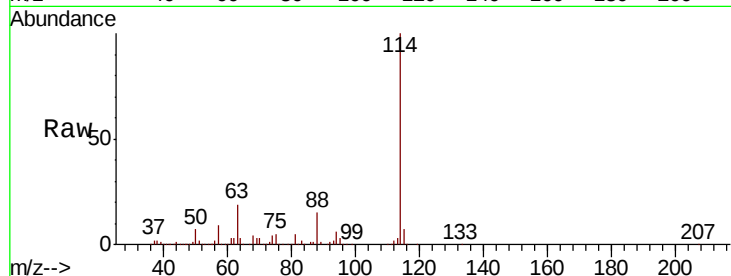
Tot Ion:114 Resp: 409377

Ion Ratio Lower Upper

114 100

63 19.3 0.0 41.4

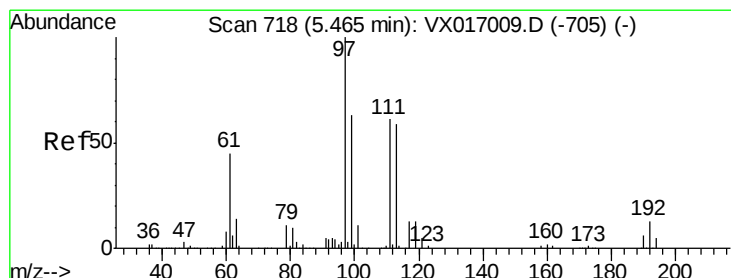
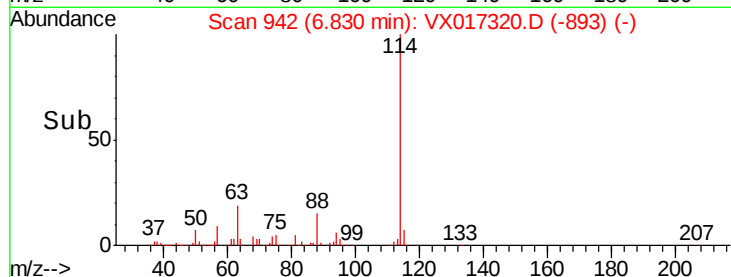
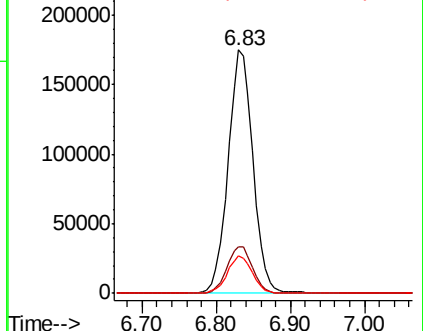
88 15.4 0.0 32.4



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: 53.210 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017320.D

Acq: 09 Jul 2020 19:58

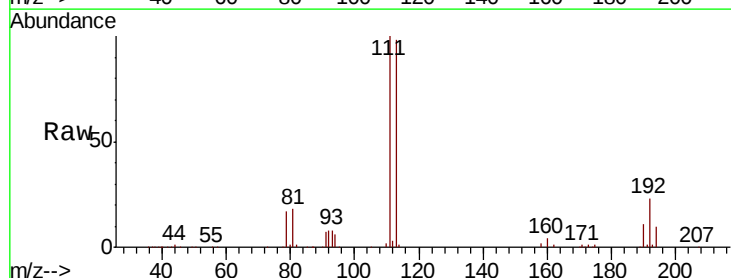
Tgt Ion:113 Resp: 137792

Ion Ratio Lower Upper

113 100

111 100.9 81.9 122.9

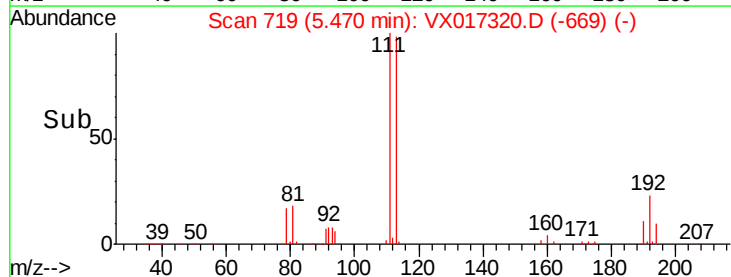
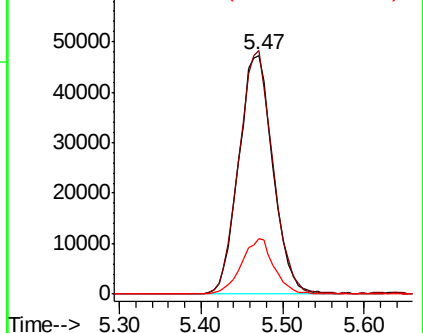
192 21.9 16.7 25.1

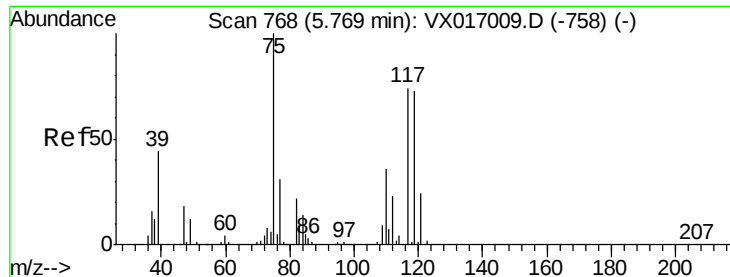


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.571 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.15 min

Lab File: VX017320.D

Acq: 09 Jul 2020 19:58

Instrument :

MSVOA_X

ClientSampleId :

E3-41-BOILER-ROOM

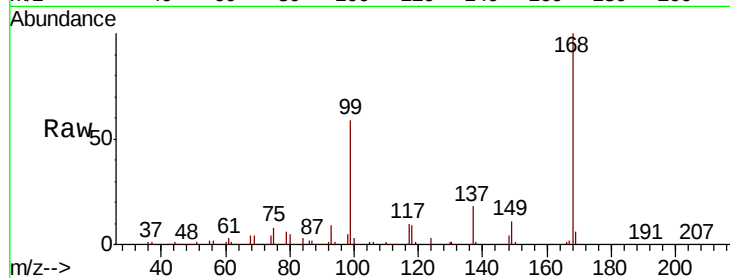
Tot Ion: 75 Resp: 17685

Ion Ratio Lower Upper

75 100

110 10.3 18.1 54.1#

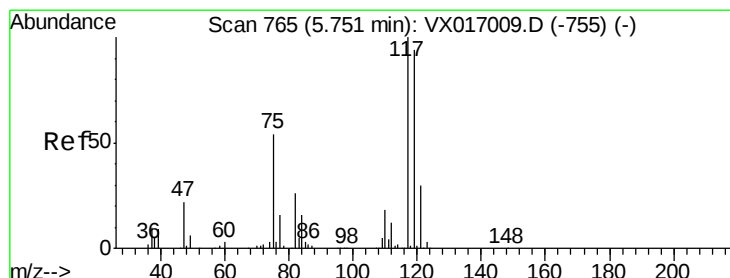
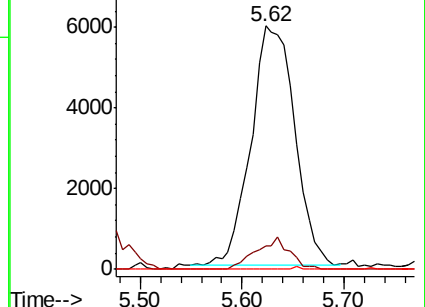
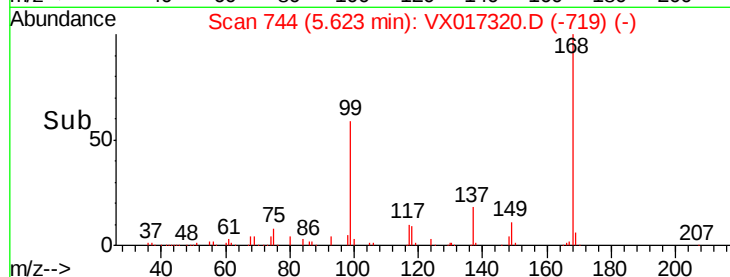
77 0.0 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): VX017320.D (-719) (-)

Ion 109.90 (109.60 to 110.60): VX017320.D (-719) (-)

Ion 76.90 (76.60 to 77.60): VX017320.D (-719) (-)



#38

Carbon Tetrachloride

Concen: 5.596 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX017320.D

Acq: 09 Jul 2020 19:58

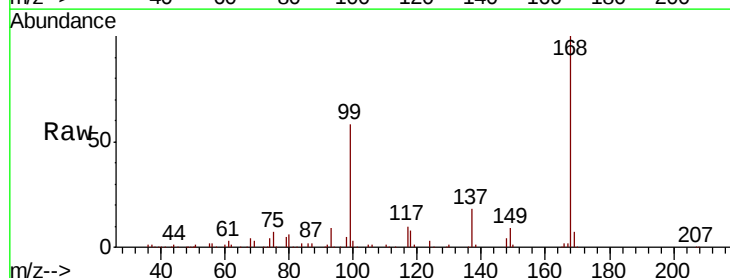
Tgt Ion: 117 Resp: 23848

Ion Ratio Lower Upper

117 100

119 5.5 75.4 113.0#

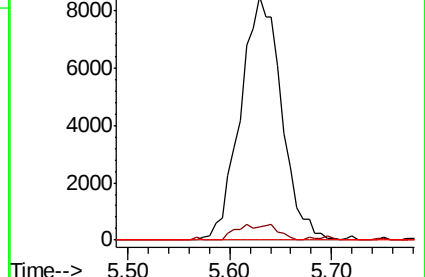
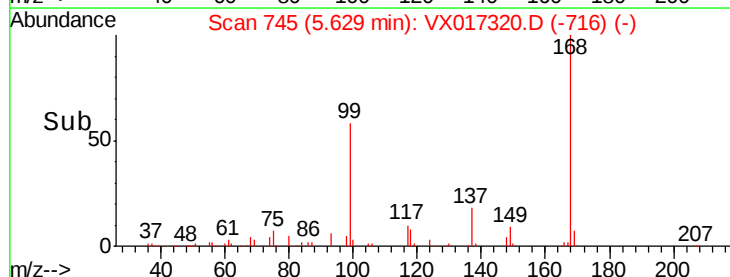
121 0.0 23.8 35.6#

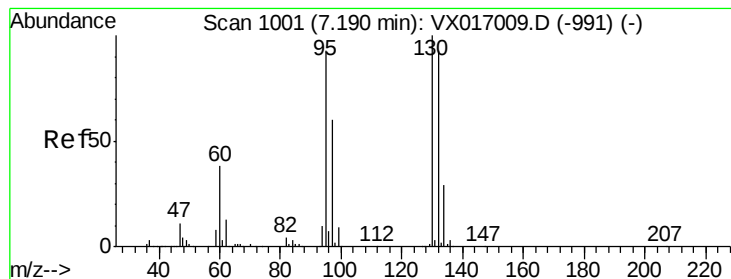


Abundance Ion 116.80 (116.50 to 117.50): VX017320.D (-716) (-)

Ion 118.80 (118.50 to 119.50): VX017320.D (-716) (-)

Ion 120.80 (120.50 to 121.50): VX017320.D (-716) (-)





#44

Trichloroethene

Concen: Below Cal

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX017320.D

Acq: 09 Jul 2020 19:58

Instrument :

MSVOA_X

ClientSampleId :

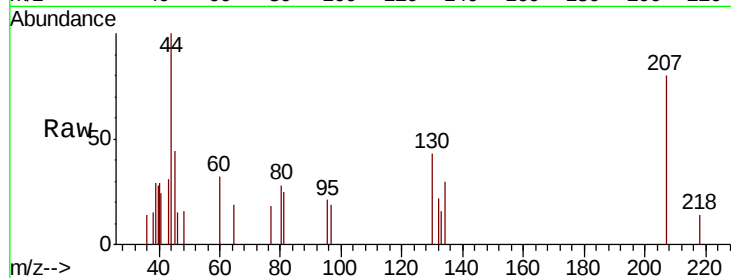
E3-41-BOILER-ROOM

Tot Ion:130 Resp: 297

Ion Ratio Lower Upper

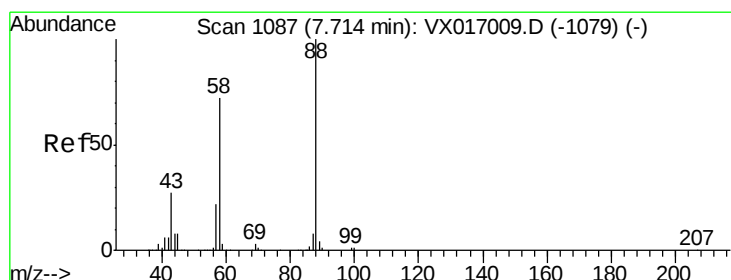
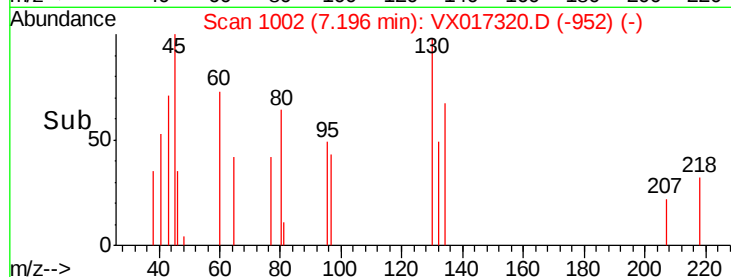
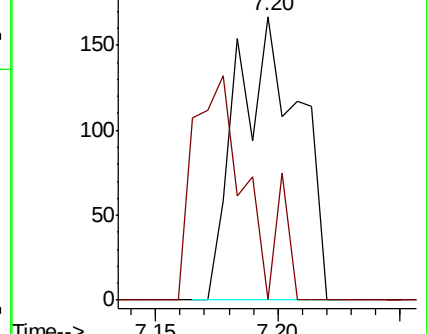
130 100

95 49.7 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.555 ug/l

RT: 7.79 min Scan# 1099

Delta R.T. 0.07 min

Lab File: VX017320.D

Acq: 09 Jul 2020 19:58

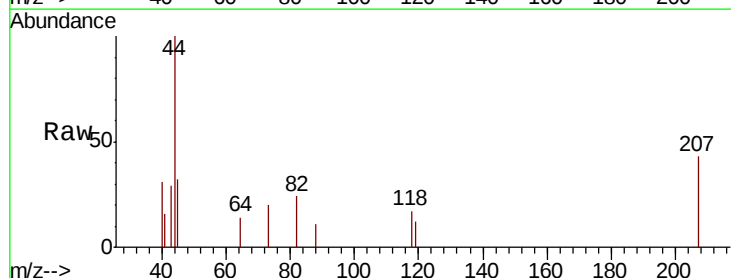
Tgt Ion: 88 Resp: 39

Ion Ratio Lower Upper

88 100

43 428.2 25.8 38.8#

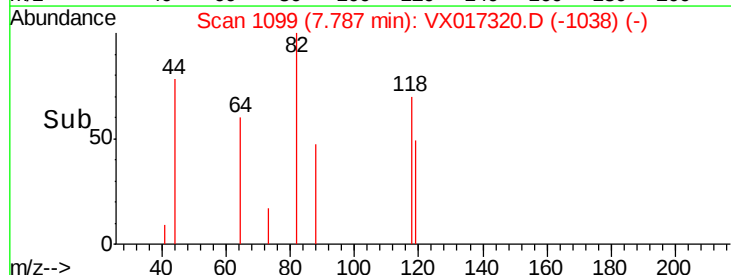
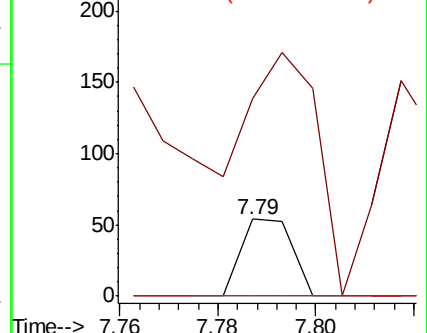
58 0.0 54.8 82.2#

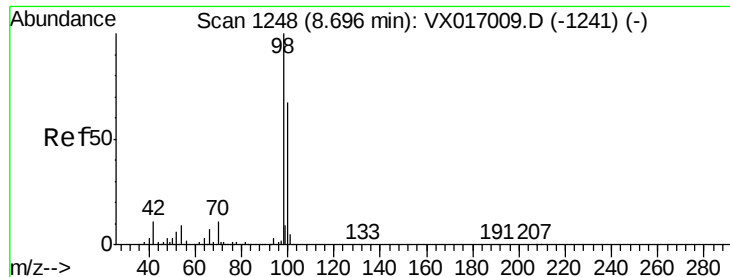


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

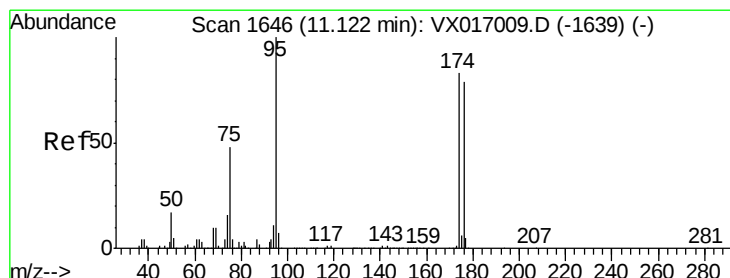
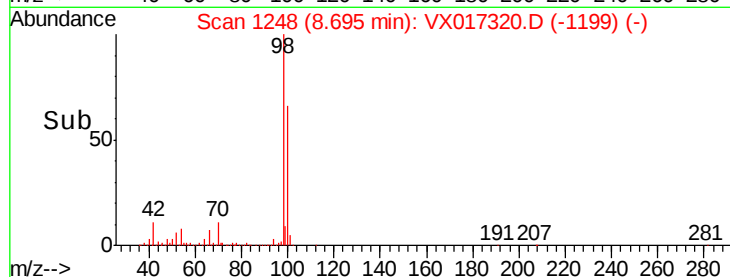
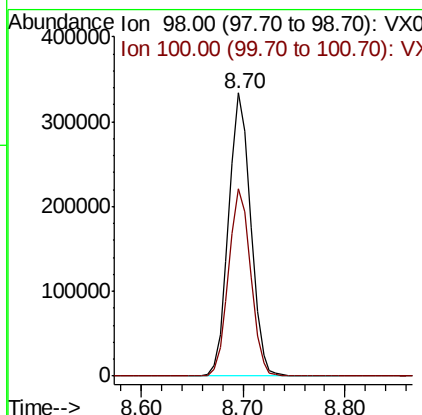
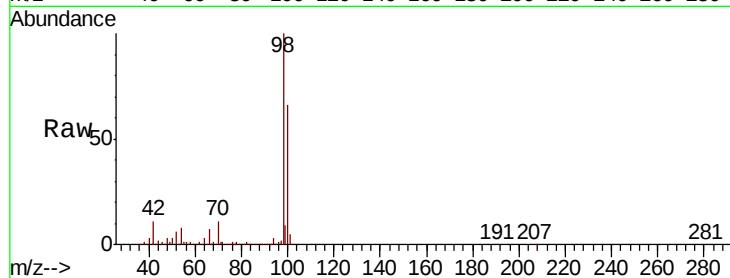




#50
Toluene-d8
Concen: 52.116 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017320.D
Acq: 09 Jul 2020 19:58

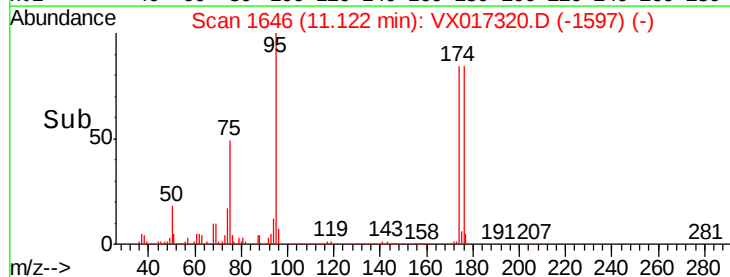
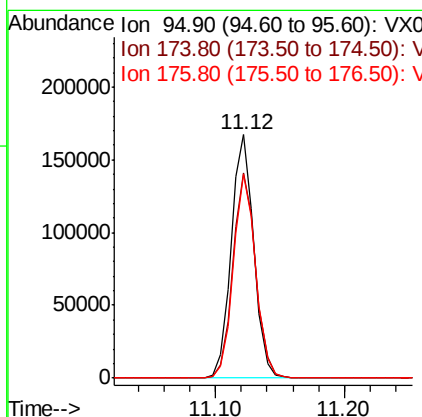
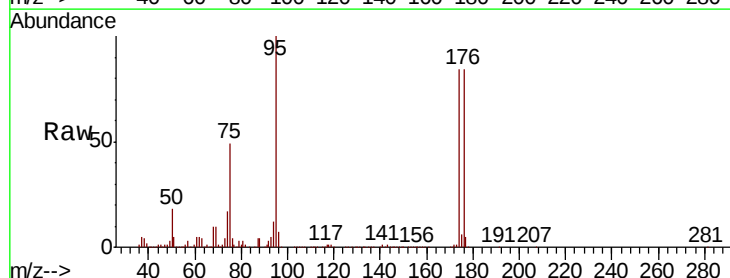
Instrument :
MSVOA_X
ClientSampleId :
E3-41-BOILER-ROOM

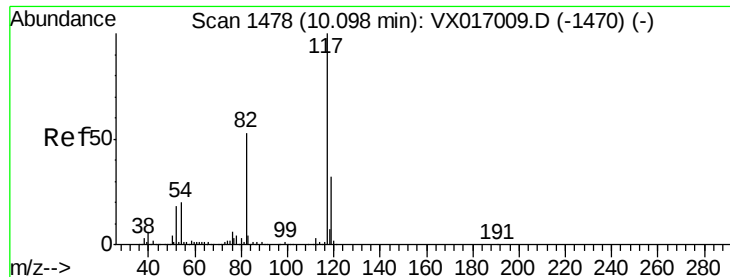
Tot Ion: 98 Resp: 499051
Ion Ratio Lower Upper
98 100
100 66.3 53.8 80.6



#62
4-Bromofluorobenzene
Concen: 54.823 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017320.D
Acq: 09 Jul 2020 19:58

Tgt Ion: 95 Resp: 205217
Ion Ratio Lower Upper
95 100
174 84.9 0.0 164.0
176 82.8 0.0 157.6

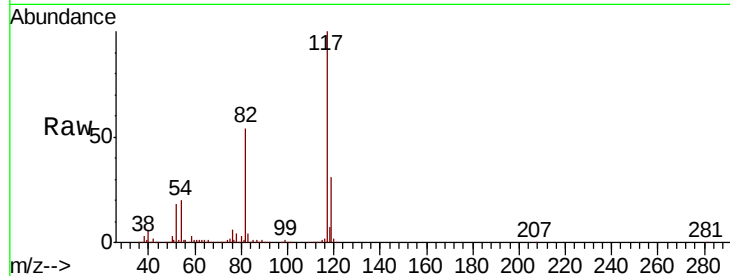




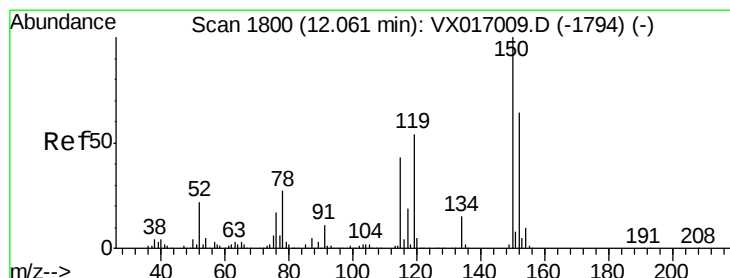
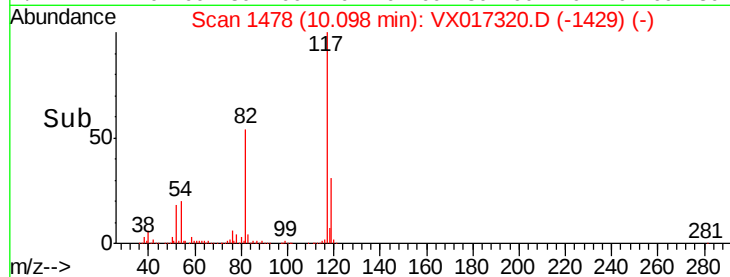
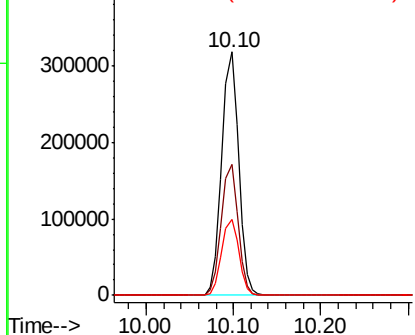
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017320.D
Acq: 09 Jul 2020 19:58

Instrument :
MSVOA_X
ClientSampleId :
E3-41-BOILER-ROOM

Tot Ion:117 Resp: 426489
Ion Ratio Lower Upper
117 100
82 53.7 42.6 63.8
119 31.3 25.4 38.2

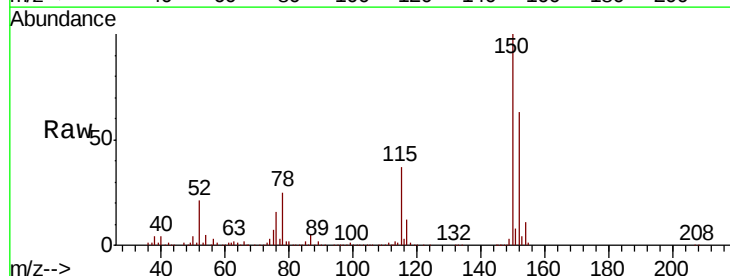


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

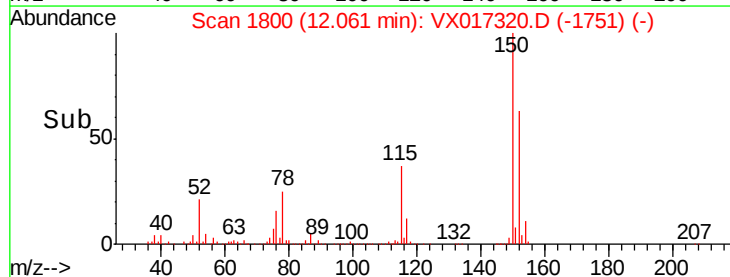
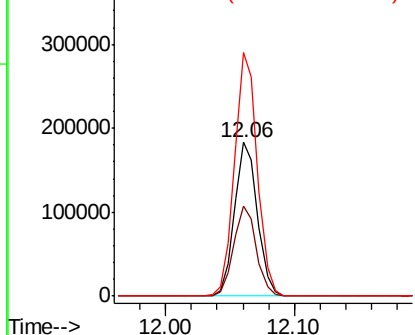


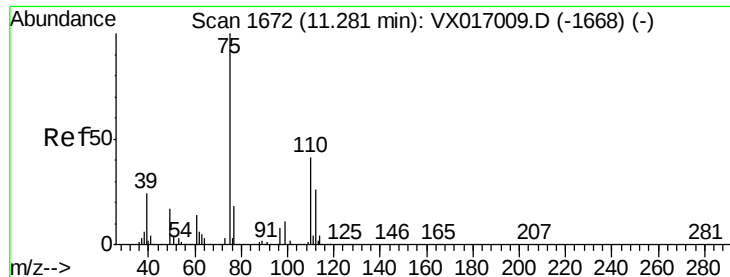
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017320.D
Acq: 09 Jul 2020 19:58

Tgt Ion:152 Resp: 226259
Ion Ratio Lower Upper
152 100
115 58.2 40.9 122.7
150 157.5 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: 22.885 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017320.D

Acq: 09 Jul 2020 19:58

Instrument :

MSVOA_X

ClientSampleId :

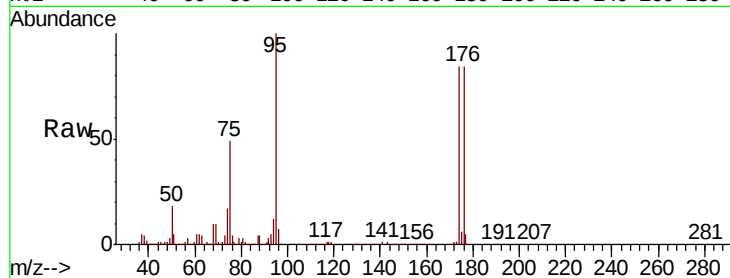
E3-41-BOILER-ROOM

Tot Ion: 75 Resp: 101820

Ion Ratio Lower Upper

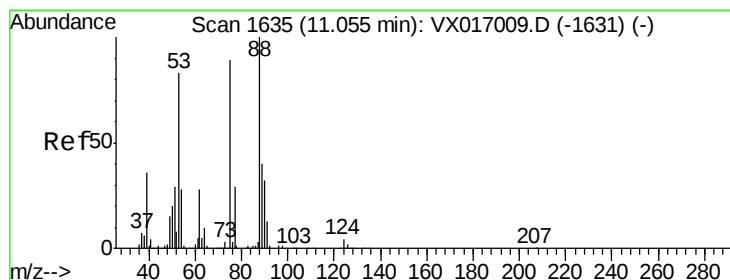
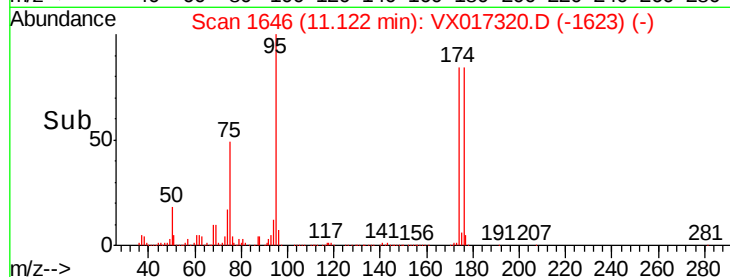
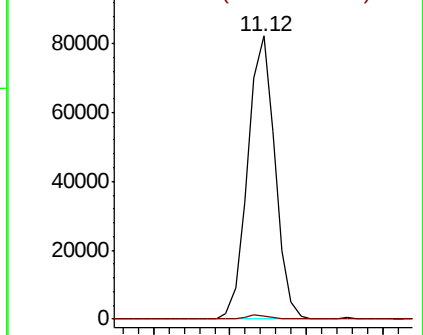
75 100

77 1.4 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: 59.263 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017320.D

Acq: 09 Jul 2020 19:58

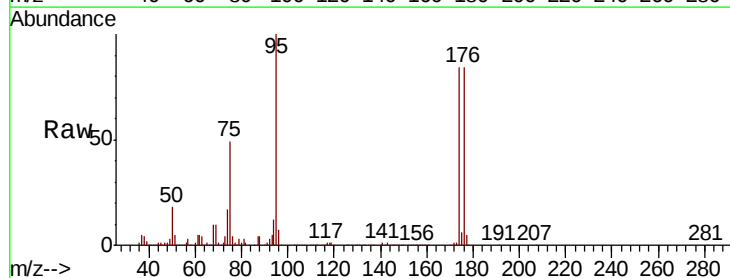
Tgt Ion: 75 Resp: 101820

Ion Ratio Lower Upper

75 100

53 0.2 72.4 108.6#

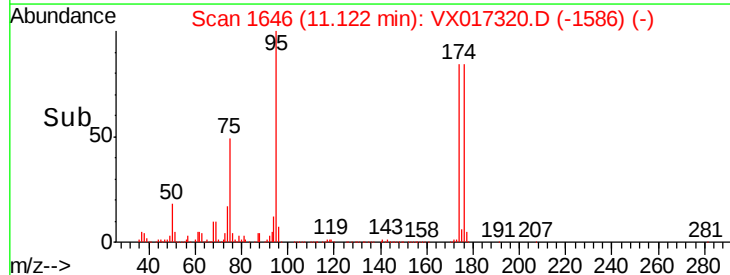
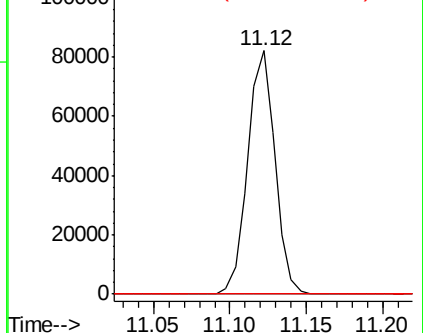
89 0.1 37.0 55.4#

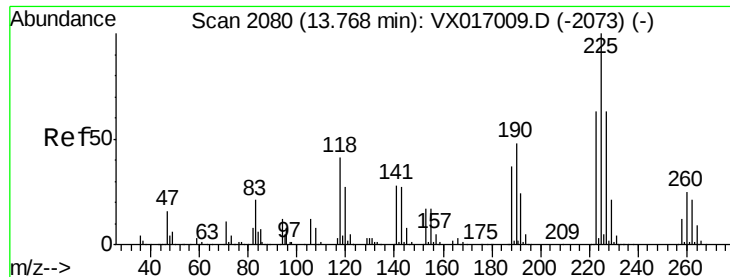


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#94

Hexachlorobutadiene

Concen: 0.904 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX017320.D

Acq: 09 Jul 2020 19:58

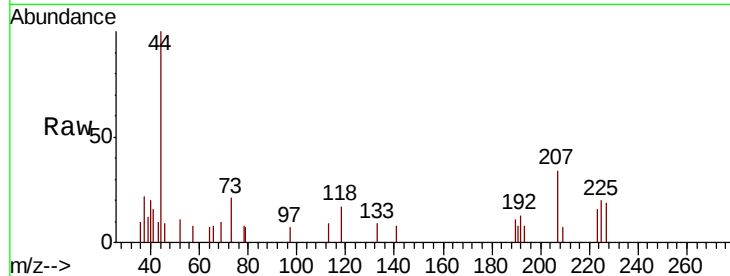
Instrument :

MSVOA_X

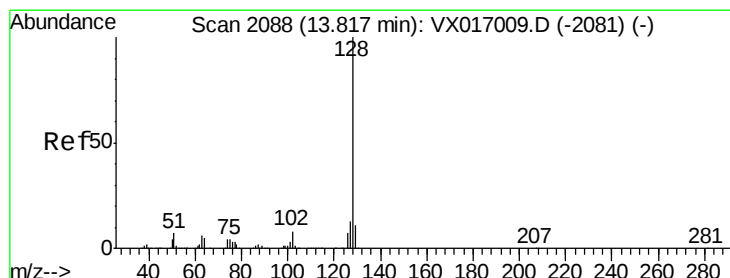
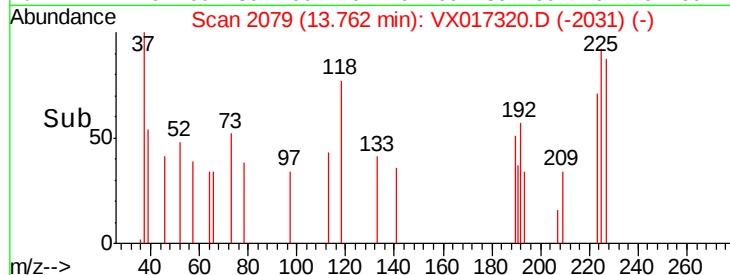
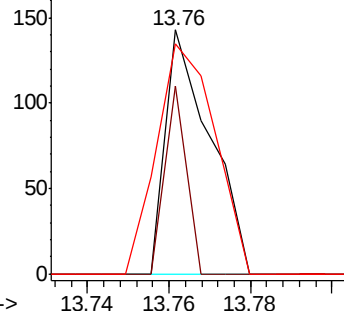
ClientSampleId :

E3-41-BOILER-ROOM

Tot Ion:	225	Resp:	109
Ion	Ratio	Lower	Upper
225	100		
223	36.7	32.5	97.5
227	122.9	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: 0.315 ug/l

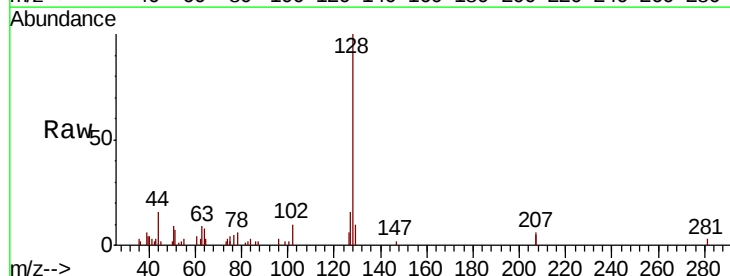
RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX017320.D

Acq: 09 Jul 2020 19:58

Tgt Ion:	128	Resp:	4523
Ion	Ratio	Lower	Upper
128	100		
127	15.0	10.2	15.4
129	8.2	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

