

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070120\
 Data File : VX017098.D
 Acq On : 01 Jul 2020 15:15
 Operator : JC/SP
 Sample : L3129-01 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 1446

Quant Time: Jul 02 01:36:41 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	5.62	168	205561	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	6.83	114	346622	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	366412	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	198285	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	134843	53.21	ug/l	0.00
Spiked Amount			Recovery	=	106.42%	
35) Dibromofluoromethane	5.47	113	115222	52.55	ug/l	0.00
Spiked Amount			Recovery	=	105.10%	
50) Toluene-d8	8.70	98	423984	52.29	ug/l	0.00
Spiked Amount			Recovery	=	104.58%	
62) 4-Bromofluorobenzene	11.12	95	185124	58.41	ug/l	0.00
Spiked Amount			Recovery	=	116.82%	

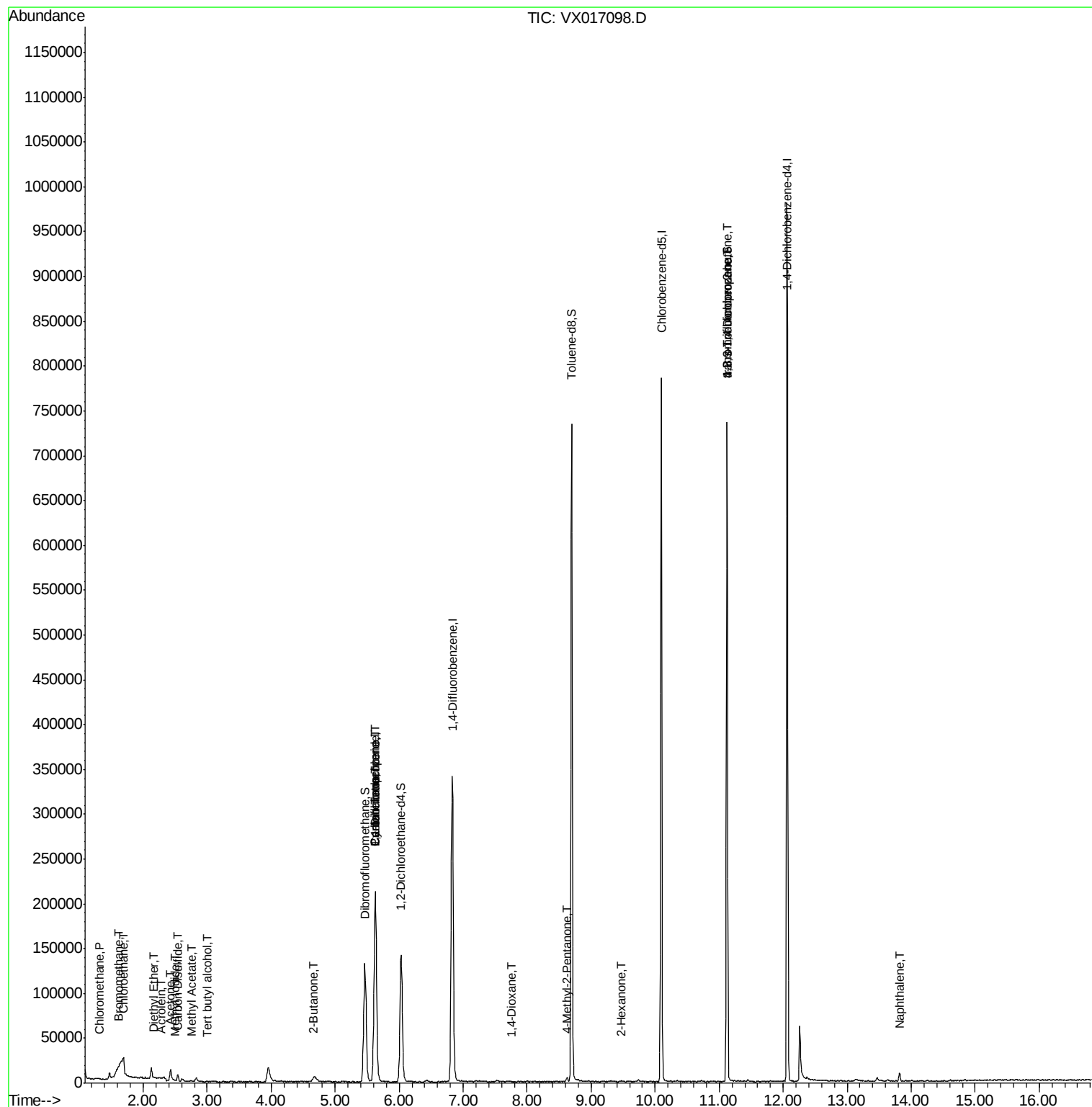
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	518	0.215	ug/l	96
5) Bromomethane	1.62	94	532	0.451	ug/l #	46
6) Chloroethane	1.68	64	330	0.250	ug/l #	1
8) Diethyl Ether	2.17	74	437	0.756	ug/l #	1
10) Methyl Iodide	2.50	142	720	0.282	ug/l #	83
11) Tert butyl alcohol	3.01	59	109	0.225	ug/l #	73
13) Acrolein	2.28	56	301	1.042	ug/l #	14
16) Acetone	2.43	43	13677	14.427	ug/l	92
17) Carbon Disulfide	2.54	76	9178	1.639	ug/l #	88
18) Methyl Acetate	2.75	43	1160	0.469	ug/l	93
20) Methylene Chloride	2.82	84	1679	Below Cal		94
25) 2-Butanone	4.65	43	5206	3.296	ug/l	91
31) Cyclohexane	5.63	56	4225	1.235	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	15249	4.655	ug/l #	51
38) Carbon Tetrachloride	5.63	117	19770	5.479	ug/l #	18
44) Trichloroethene	7.18	130	116	Below Cal		81
49) 1,4-Dioxane	7.76	88	19	0.320	ug/l #	1
51) 4-Methyl-2-Pentanone	8.63	43	3084	0.937	ug/l	90
59) 2-Hexanone	9.48	43	819	0.341	ug/l	80
76) 1,2,3-Trichloropropane	11.12	75	91820	23.549	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	91820	60.983	ug/l #	13
88) 1,4-Dichlorobenzene	12.07	146	474	Below Cal	#	1
95) Naphthalene	13.82	128	5405	0.430	ug/l #	95

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.01 min

Lab File: VX017098.D

Acq: 01 Jul 2020 15:15

Instrument :

MSVOA_X

ClientSampleId :

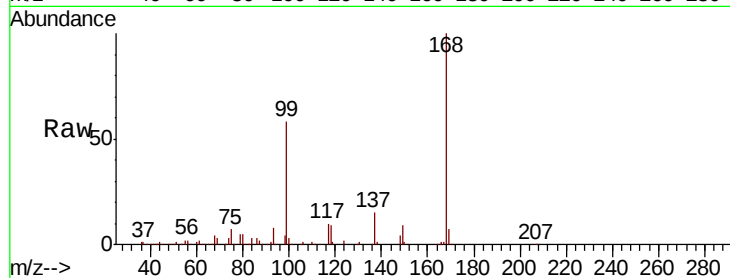
1446

Tot Ion:168 Resp: 205561

Ion Ratio Lower Upper

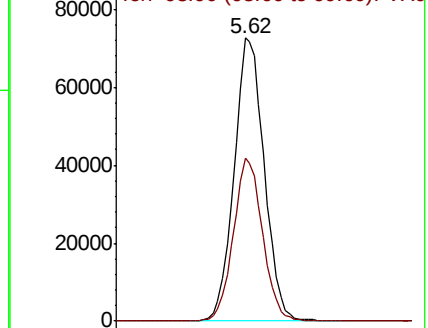
168 100

99 57.8 42.6 64.0

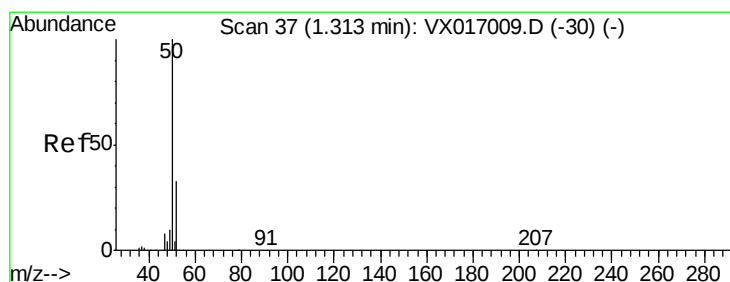
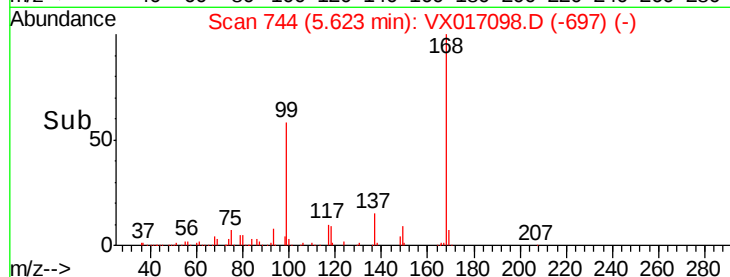


Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



Time-->



#3

Chloromethane

Concen: 0.215 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017098.D

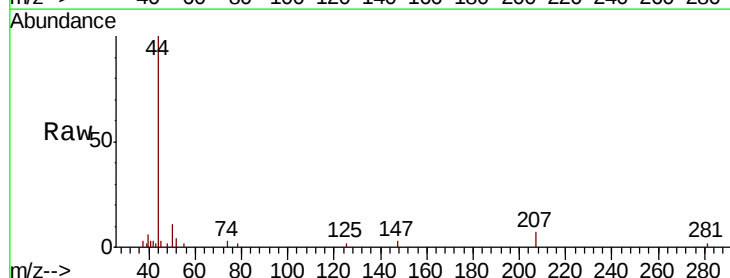
Acq: 01 Jul 2020 15:15

Tgt Ion: 50 Resp: 518

Ion Ratio Lower Upper

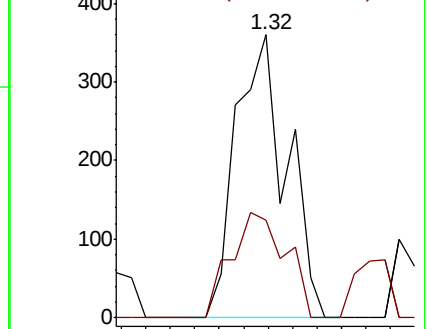
50 100

52 34.7 26.1 39.1

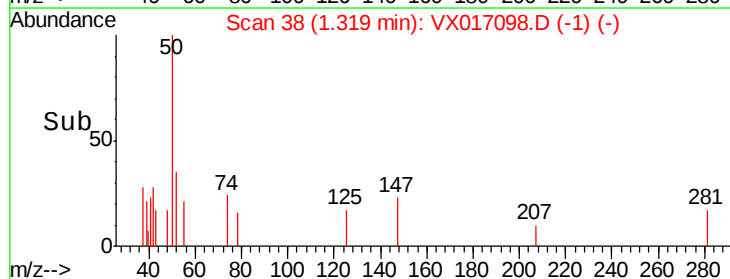


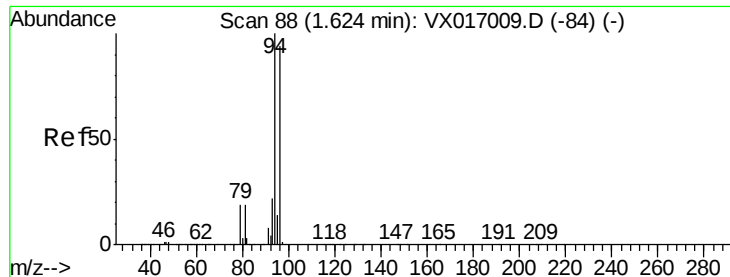
Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



Time-->





#5

Bromomethane

Concen: 0.451 ug/l

RT: 1.62 min Scan# 87

Delta R.T. -0.01 min

Lab File: VX017098.D

Acq: 01 Jul 2020 15:15

Instrument :

MSVOA_X

ClientSampled :

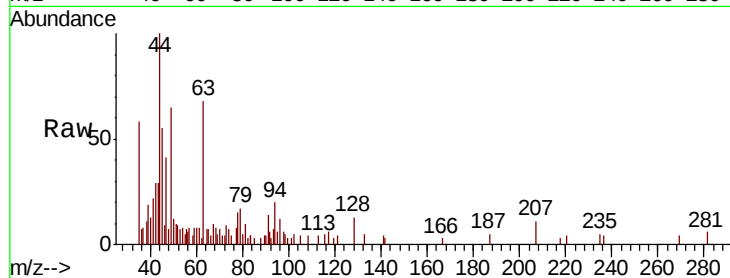
1446

Tot Ion: 94 Resp: 532

Ion Ratio Lower Upper

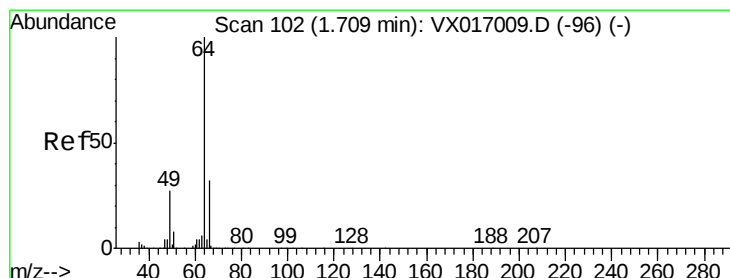
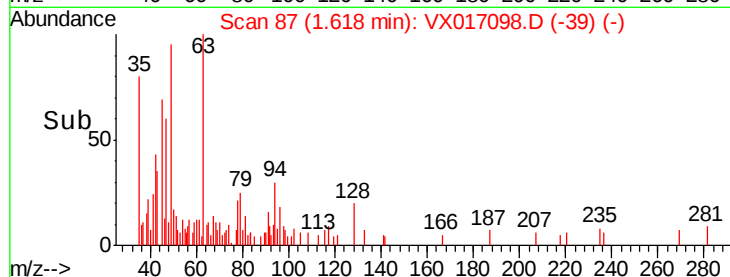
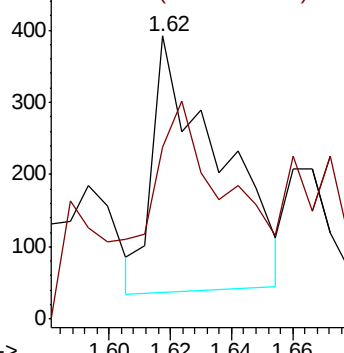
94 100

96 41.5 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.250 ug/l

RT: 1.68 min Scan# 98

Delta R.T. -0.02 min

Lab File: VX017098.D

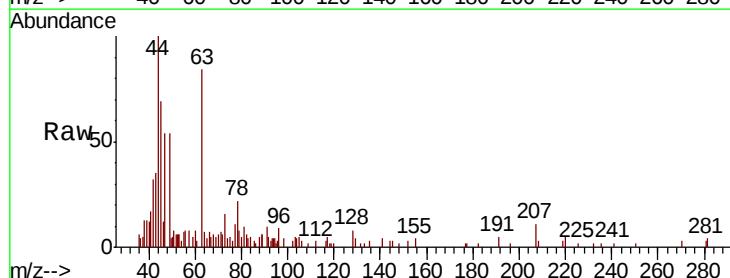
Acq: 01 Jul 2020 15:15

Tgt Ion: 64 Resp: 330

Ion Ratio Lower Upper

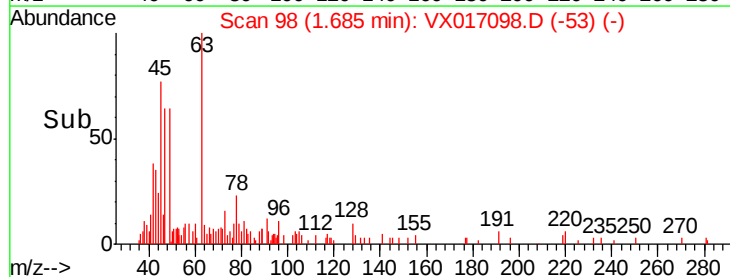
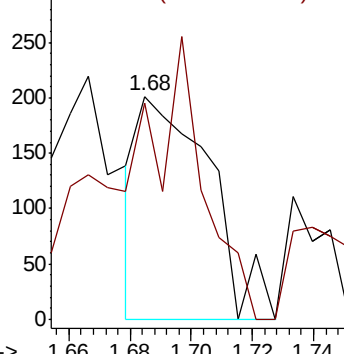
64 100

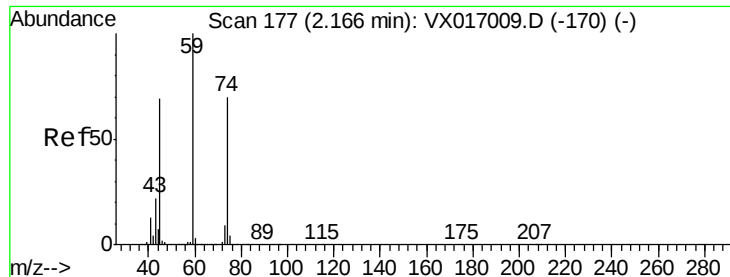
66 97.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#8

Diethyl Ether

Concen: 0.756 ug/l

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017098.D

Acq: 01 Jul 2020 15:15

Instrument :

MSVOA_X

ClientSampleId :

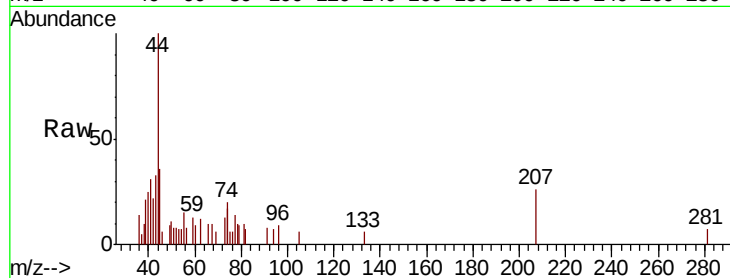
1446

Tot Ion: 74 Resp: 437

Ion Ratio Lower Upper

74 100

45 0.0 49.8 149.3#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

8000

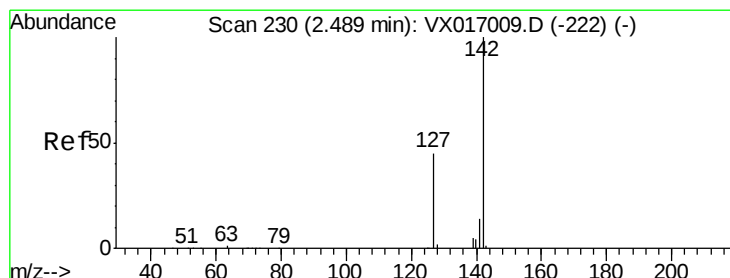
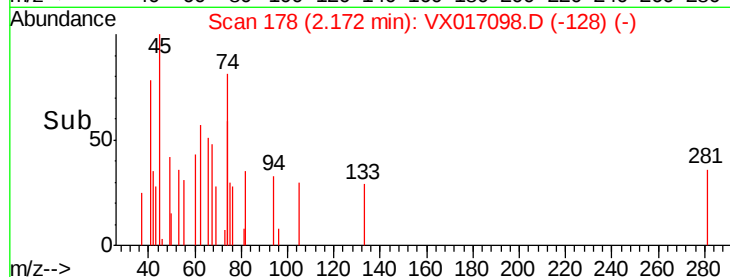
6000

4000

2000

0

Time--> 2.10 2.15 2.20



#10

Methyl Iodide

Concen: 0.282 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX017098.D

Acq: 01 Jul 2020 15:15

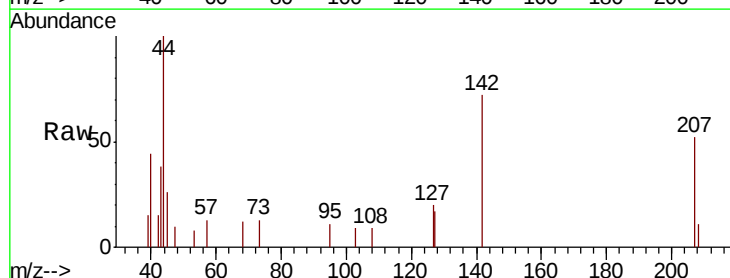
Tgt Ion: 142 Resp: 720

Ion Ratio Lower Upper

142 100

127 53.2 36.6 54.8

141 0.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

600

500

400

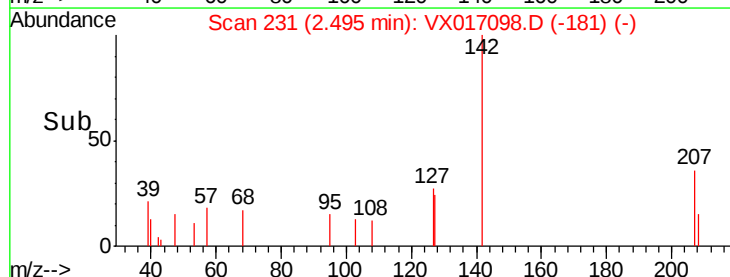
300

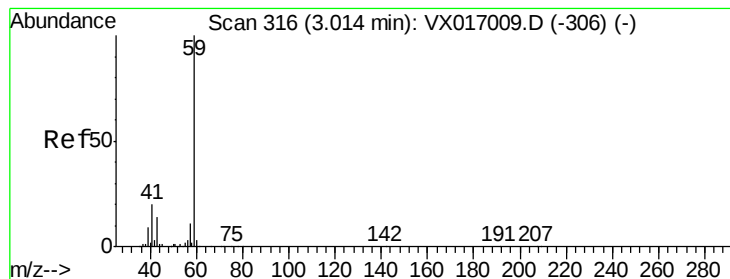
200

100

0

Time--> 2.45 2.50



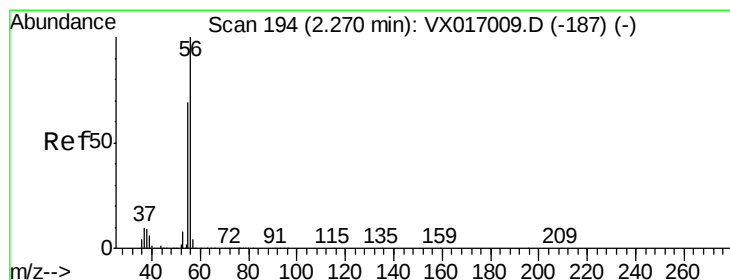
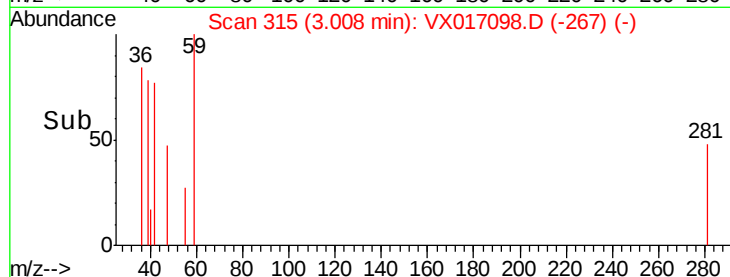
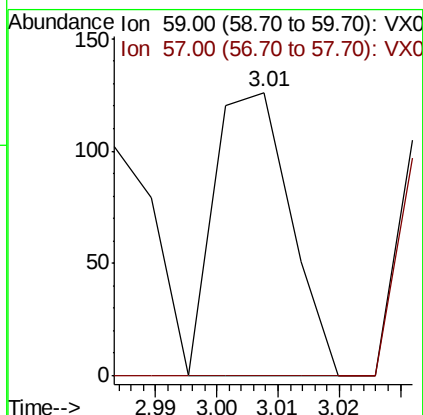
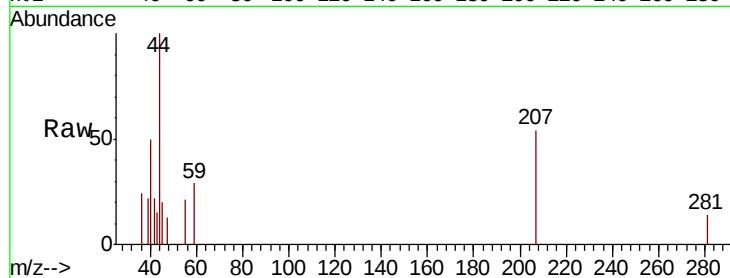


#11

Tert butvl alcohol
 Concen: 0.225 ug/l
 RT: 3.01 min Scan# 315
 Delta R.T. -0.01 min
 Lab File: VX017098.D
 Acq: 01 Jul 2020 15:15

Instrument :
 MSVOA_X
 ClientSampled :
 1446

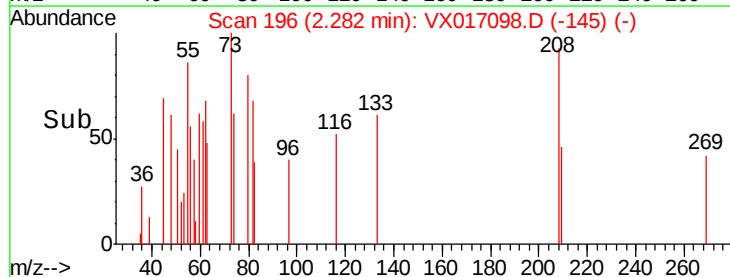
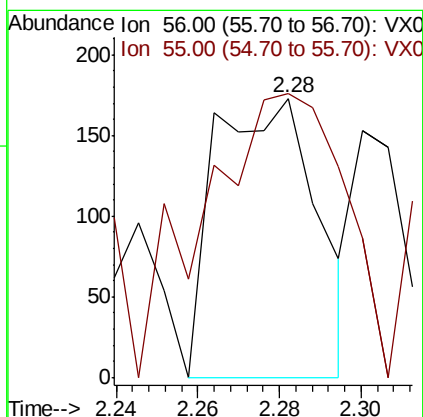
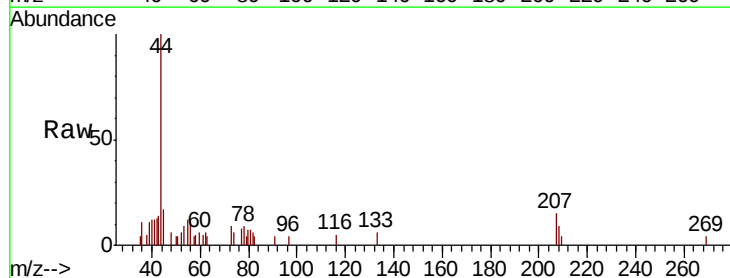
Tot Ion: 59 Resp: 109
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#

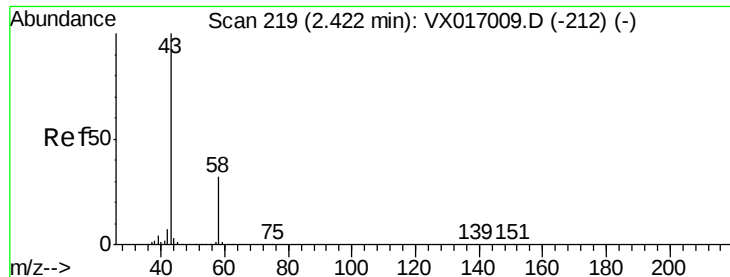


#13

Acrolein
 Concen: 1.042 ug/l
 RT: 2.28 min Scan# 196
 Delta R.T. 0.01 min
 Lab File: VX017098.D
 Acq: 01 Jul 2020 15:15

Tgt Ion: 56 Resp: 301
 Ion Ratio Lower Upper
 56 100
 55 139.9 55.7 83.5#





#16

Acetone

Concen: 14.427 ug/l

RT: 2.43 min Scan# 220

Delta R.T. 0.01 min

Lab File: VX017098.D

Acq: 01 Jul 2020 15:15

Instrument :

MSVOA_X

ClientSampleId :

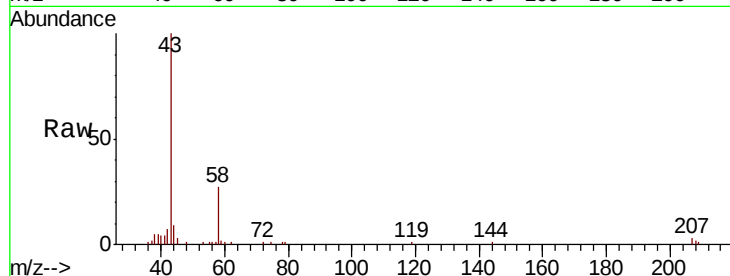
1446

Tot Ion: 43 Resp: 13677

Ion Ratio Lower Upper

43 100

58 27.5 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.43

8000

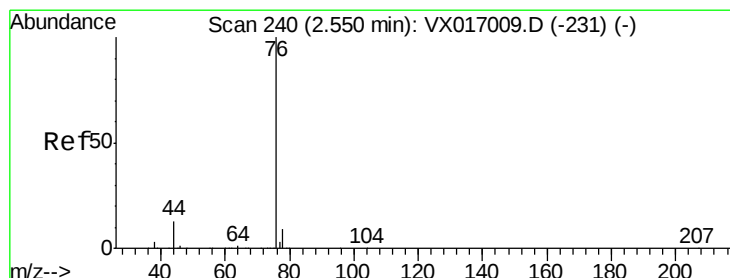
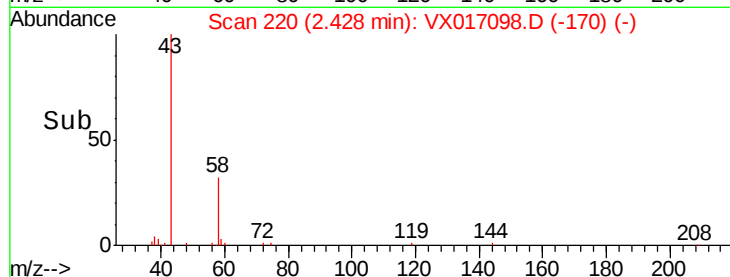
6000

4000

2000

0

Time--> 2.35 2.40 2.45 2.50 2.55



#17

Carbon Disulfide

Concen: 1.639 ug/l

RT: 2.54 min Scan# 238

Delta R.T. -0.01 min

Lab File: VX017098.D

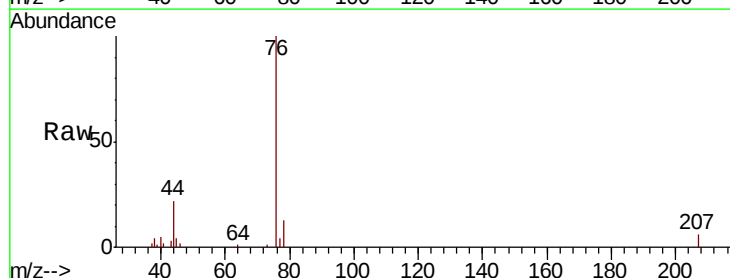
Acq: 01 Jul 2020 15:15

Tgt Ion: 76 Resp: 9178

Ion Ratio Lower Upper

76 100

78 13.3 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.54

6000

5000

4000

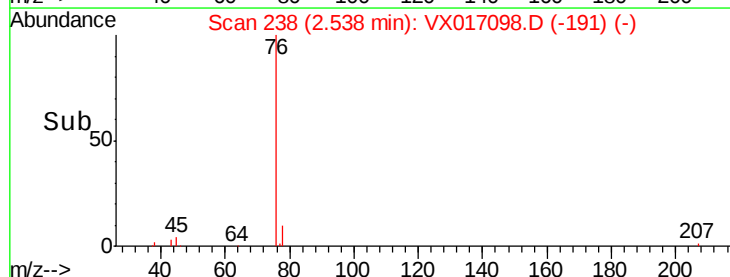
3000

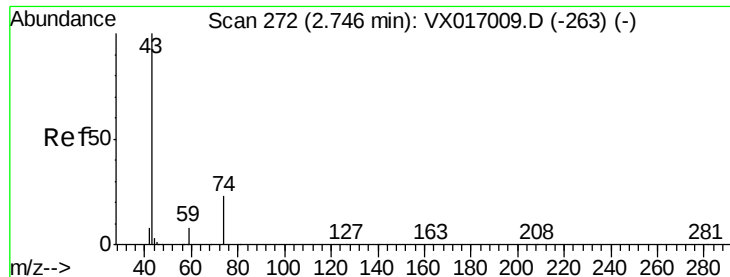
2000

1000

0

Time--> 2.45 2.50 2.55 2.60 2.65

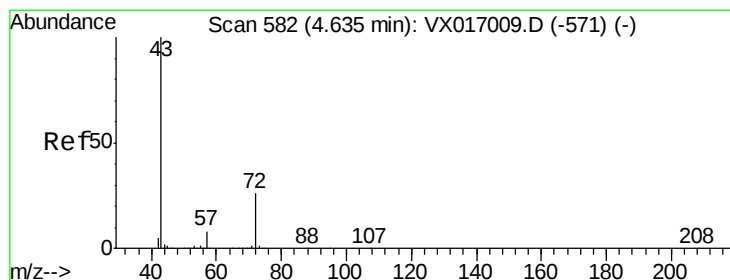
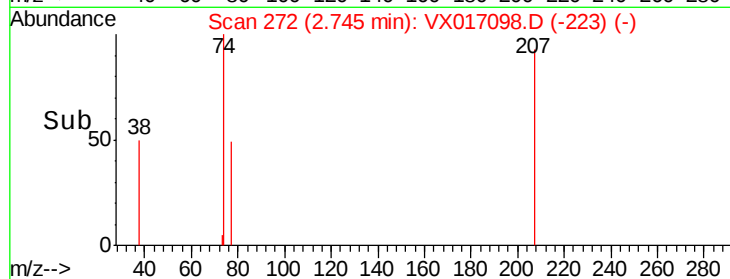
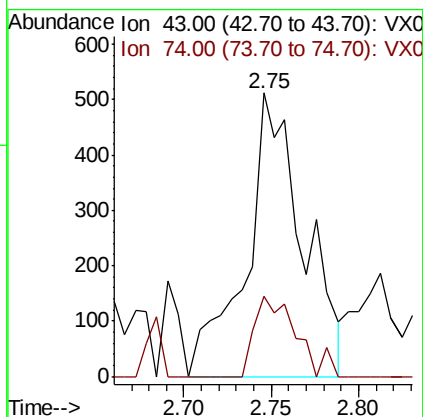
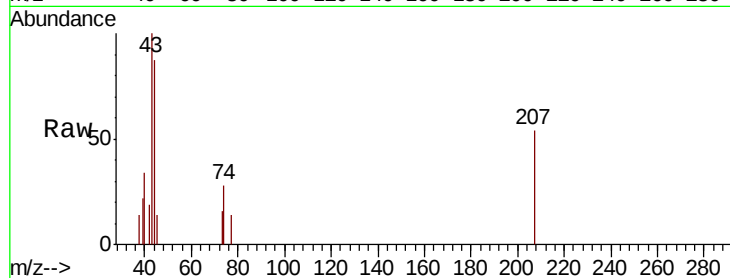




#18
Methvl Acetate
Concen: 0.469 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.00 min
Lab File: VX017098.D
Acq: 01 Jul 2020 15:15

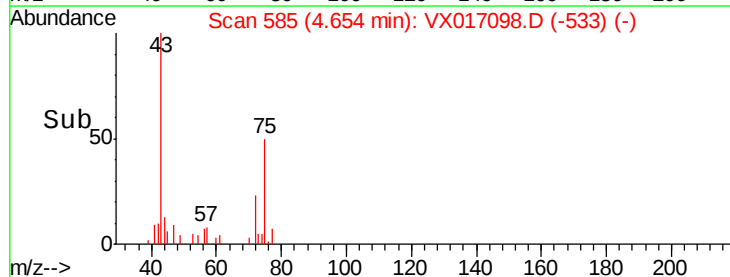
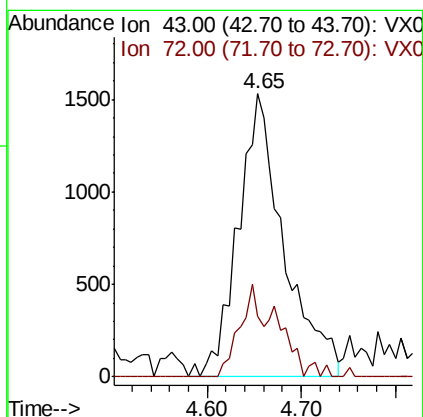
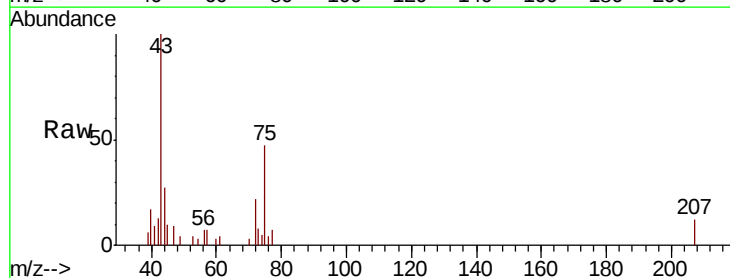
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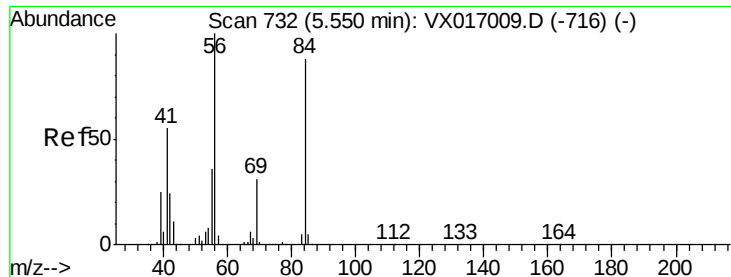
Tot Ion: 43 Resp: 1160
Ion Ratio Lower Upper
43 100
74 20.9 19.3 28.9



#25
2-Butanone
Concen: 3.296 ug/l
RT: 4.65 min Scan# 585
Delta R.T. 0.02 min
Lab File: VX017098.D
Acq: 01 Jul 2020 15:15

Tgt Ion: 43 Resp: 5206
Ion Ratio Lower Upper
43 100
72 21.6 20.8 31.2

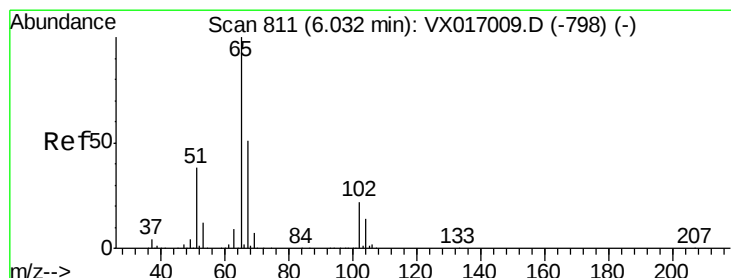
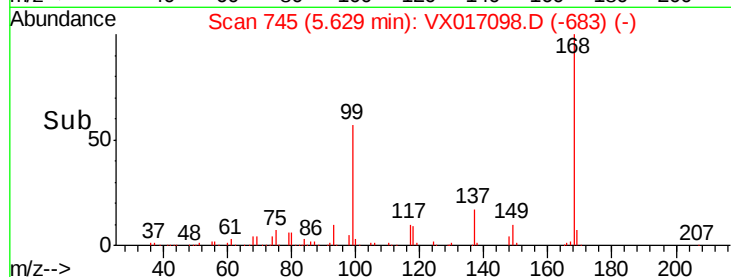
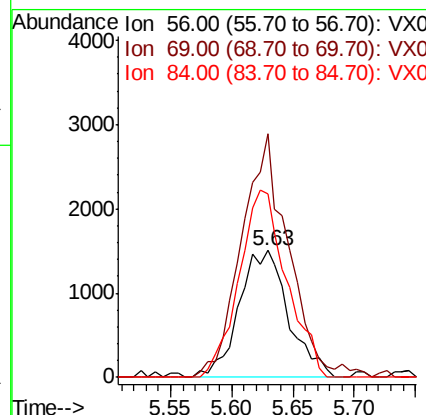
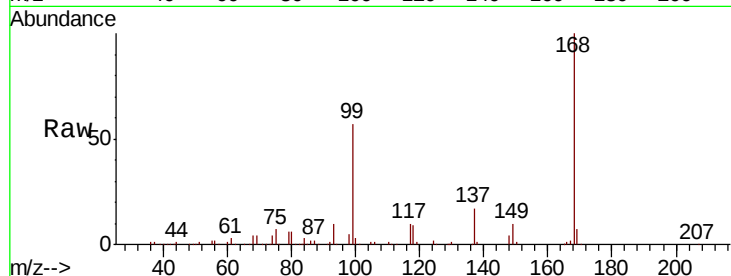




#31
Cyclohexane
Concen: 1.235 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.08 min
Lab File: VX017098.D
Acq: 01 Jul 2020 15:15

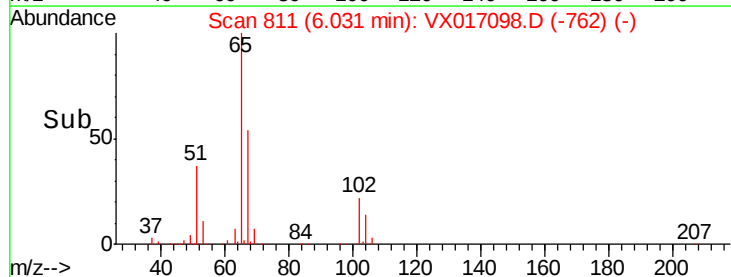
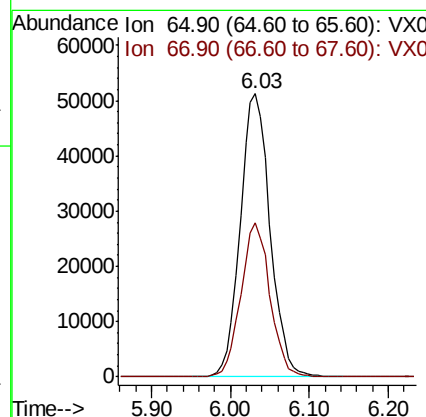
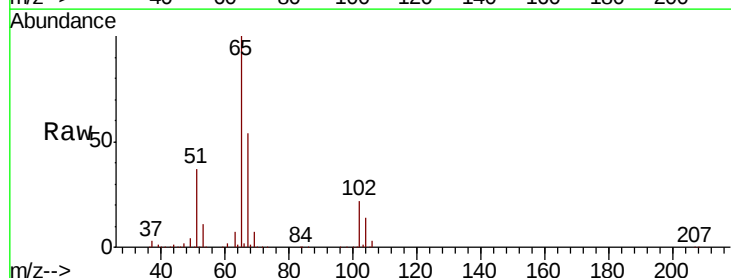
Instrument :
MSVOA_X
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1446

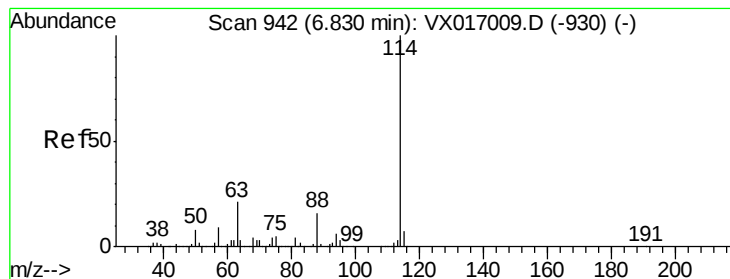
Tot Ion: 56 Resp: 4225
Ion Ratio Lower Upper
56 100
69 192.3 25.0 37.4#
84 144.9 69.1 103.7#



#33
1,2-Dichloroethane-d4
Concen: 53.210 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX017098.D
Acq: 01 Jul 2020 15:15

Tgt Ion: 65 Resp: 134843
Ion Ratio Lower Upper
65 100
67 53.4 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017098.D

Acq: 01 Jul 2020 15:15

Instrument :

MSVOA_X

ClientSampleId :

1446

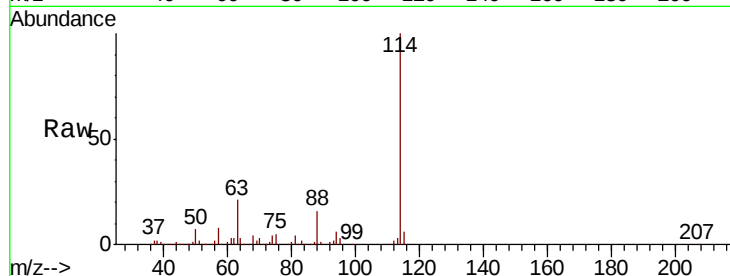
Tot Ion:114 Resp: 346622

Ion Ratio Lower Upper

114 100

63 20.6 0.0 41.4

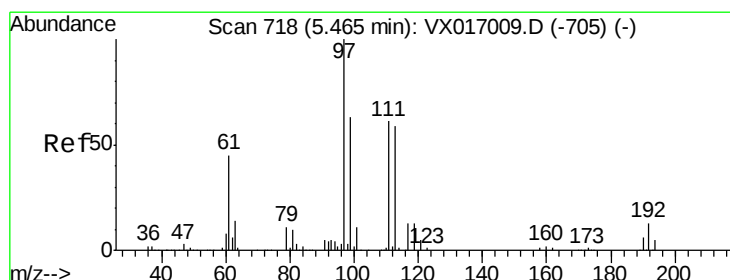
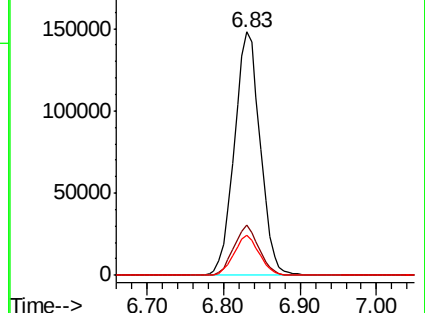
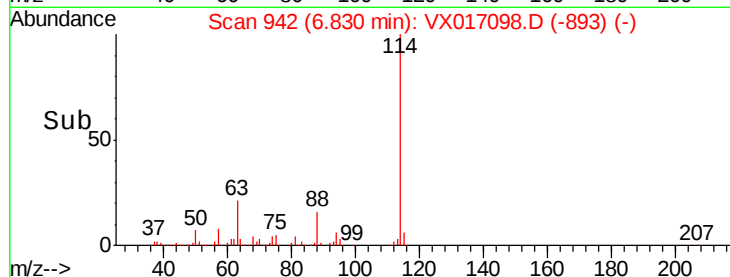
88 16.4 0.0 32.4



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: 52.550 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017098.D

Acq: 01 Jul 2020 15:15

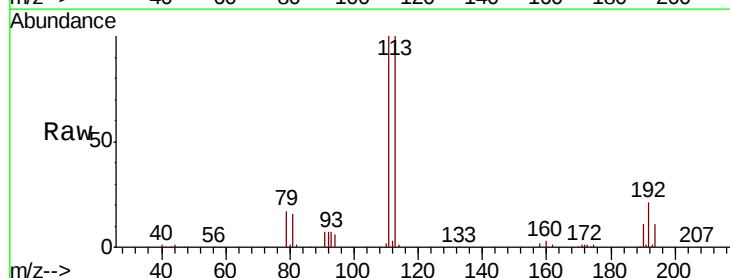
Tgt Ion:113 Resp: 115222

Ion Ratio Lower Upper

113 100

111 102.0 81.9 122.9

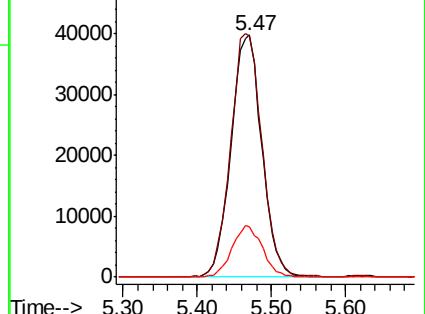
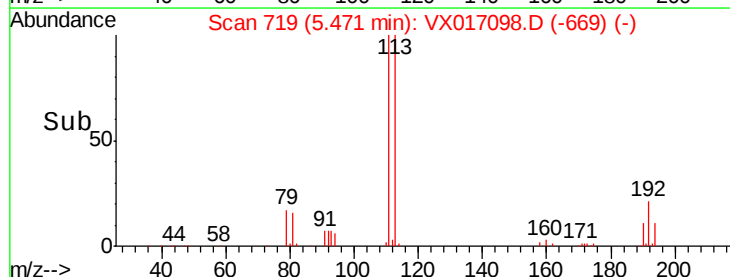
192 21.0 16.7 25.1

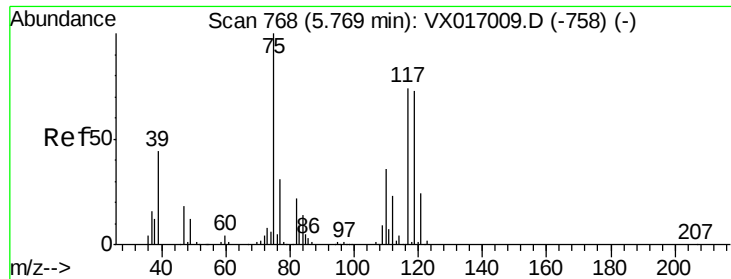


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.655 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.15 min

Lab File: VX017098.D

Acq: 01 Jul 2020 15:15

Instrument :

MSVOA_X

ClientSampleId :

1446

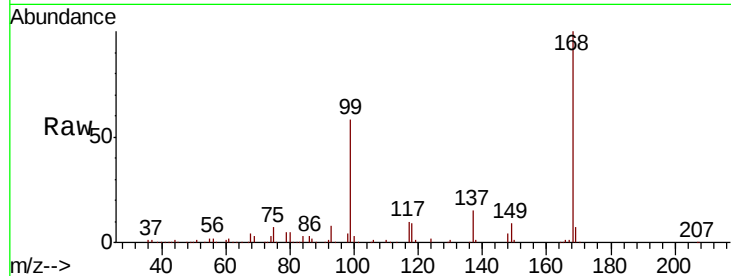
Tot Ion: 75 Resp: 15249

Ion Ratio Lower Upper

75 100

110 10.7 18.1 54.1#

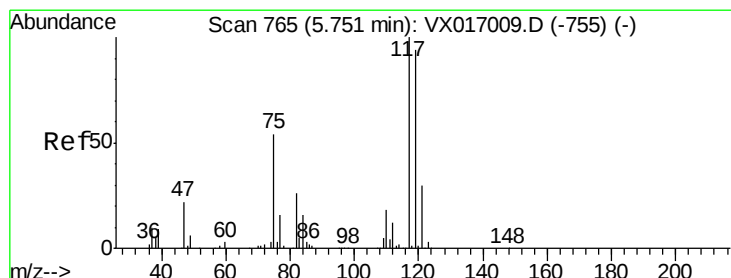
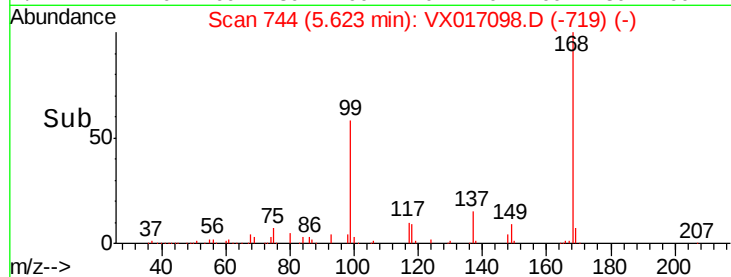
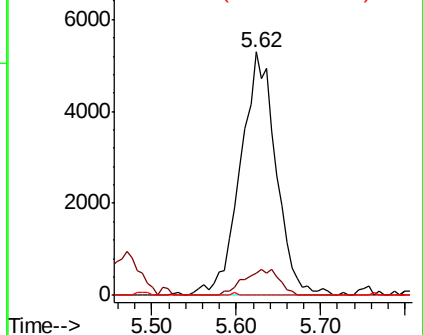
77 0.0 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 5.479 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX017098.D

Acq: 01 Jul 2020 15:15

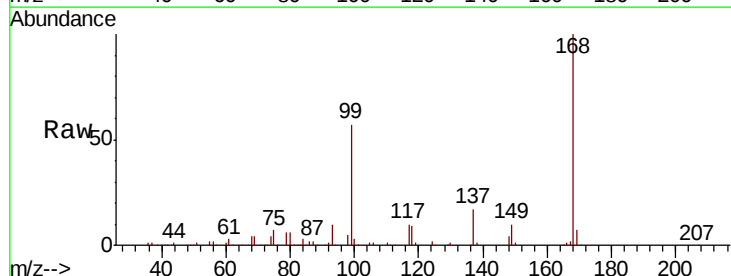
Tgt Ion:117 Resp: 19770

Ion Ratio Lower Upper

117 100

119 6.7 75.4 113.0#

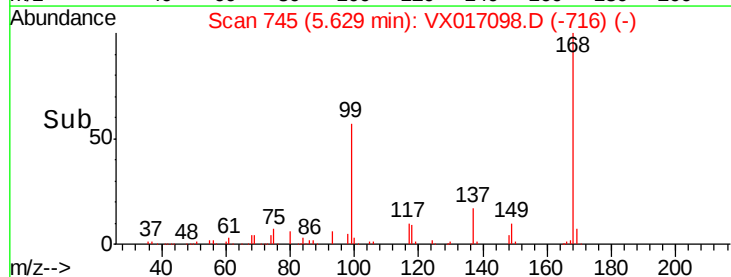
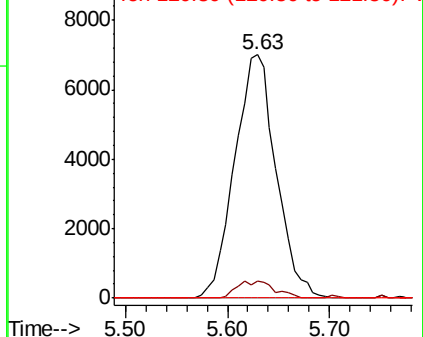
121 0.0 23.8 35.6#

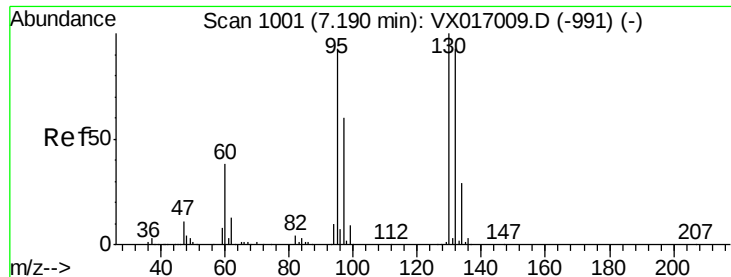


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: Below Cal

RT: 7.18 min Scan# 999

Delta R.T. -0.01 min

Lab File: VX017098.D

Acq: 01 Jul 2020 15:15

Instrument :

MSVOA_X

ClientSampled :

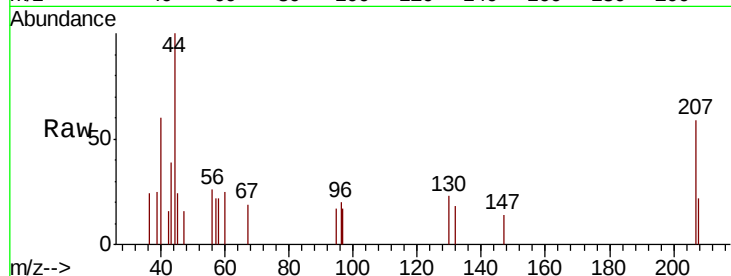
1446

Tot Ion:130 Resp: 116

Ion Ratio Lower Upper

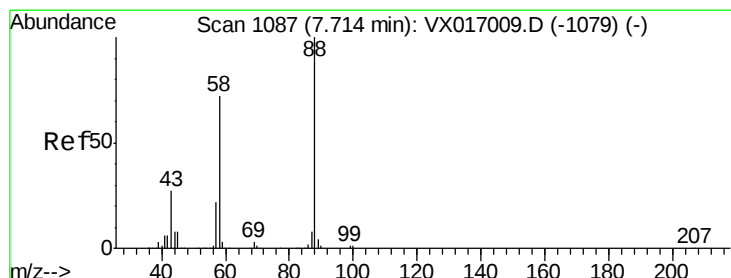
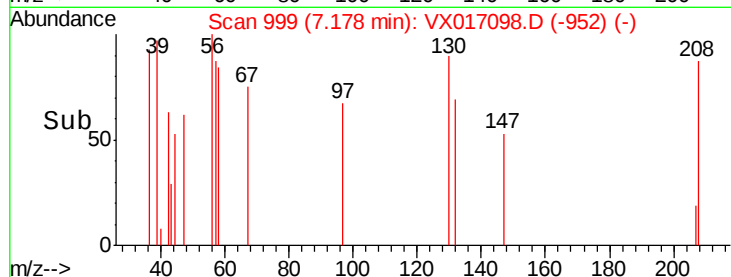
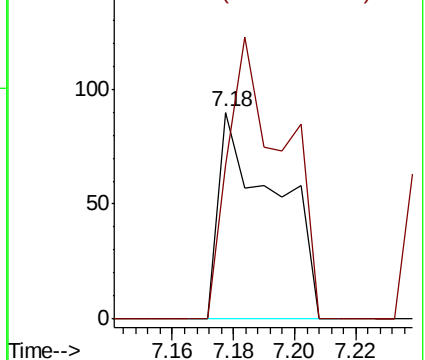
130 100

95 74.4 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: 0.320 ug/l

RT: 7.76 min Scan# 1094

Delta R.T. 0.04 min

Lab File: VX017098.D

Acq: 01 Jul 2020 15:15

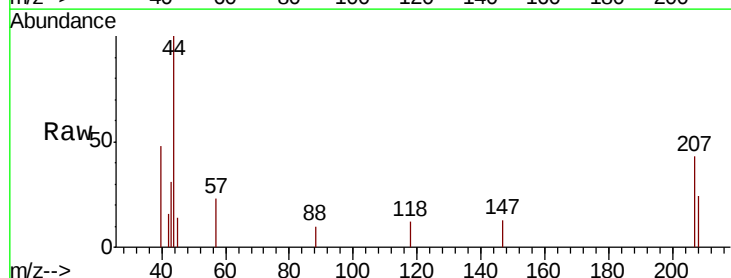
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 457.9 25.8 38.8#

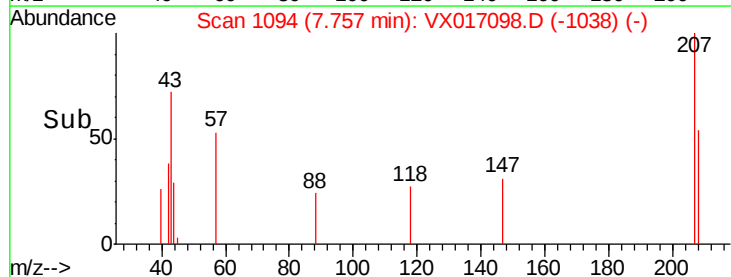
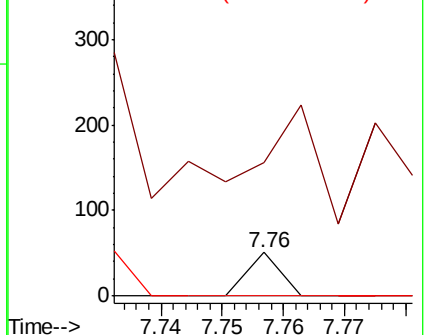
58 0.0 54.8 82.2#

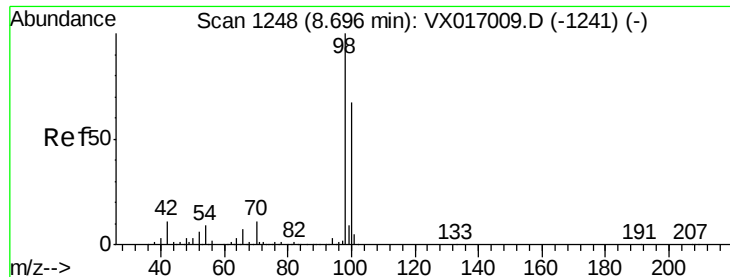


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 52.293 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017098.D

Acq: 01 Jul 2020 15:15

Instrument :

MSVOA_X

ClientSampleId :

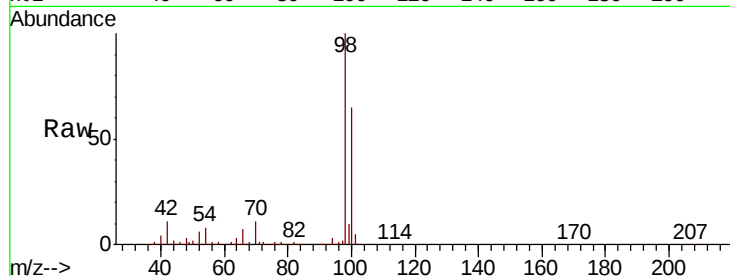
1446

Tot Ion: 98 Resp: 423984

Ion Ratio Lower Upper

98 100

100 66.1 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.70

300000

250000

200000

150000

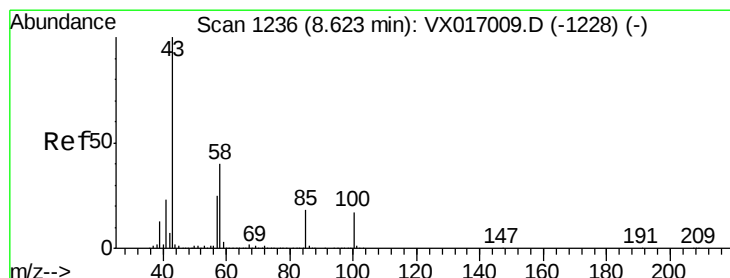
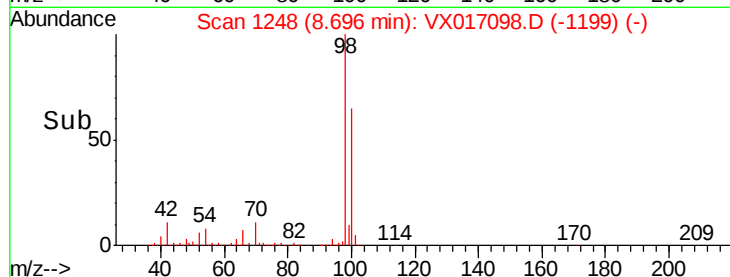
100000

50000

0

8.60 8.65 8.70 8.75 8.80

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.937 ug/l

RT: 8.63 min Scan# 1237

Delta R.T. 0.01 min

Lab File: VX017098.D

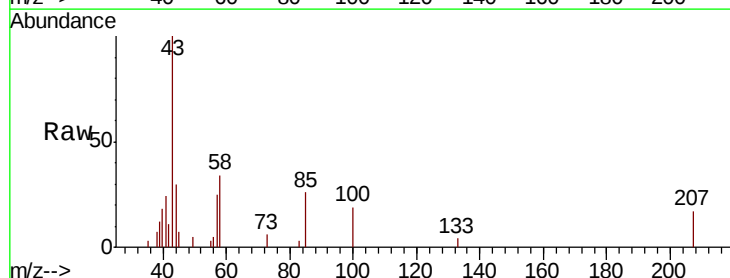
Acq: 01 Jul 2020 15:15

Tgt Ion: 43 Resp: 3084

Ion Ratio Lower Upper

43 100

58 33.9 31.9 47.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

3000

2500

2000

1500

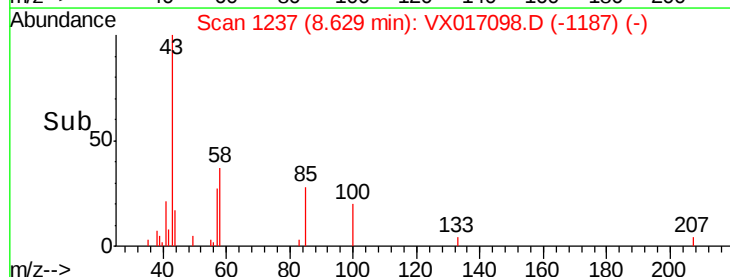
1000

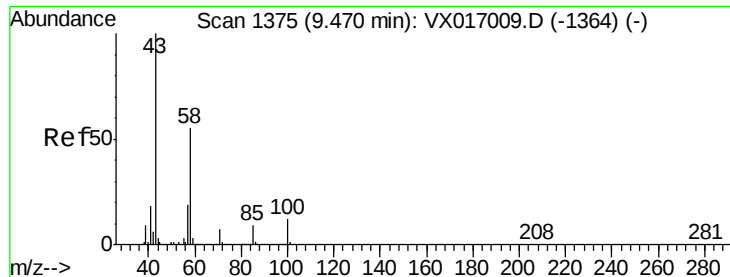
500

0

8.55 8.60 8.65

Time-->

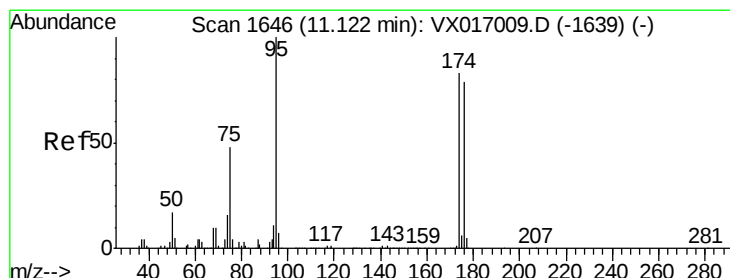
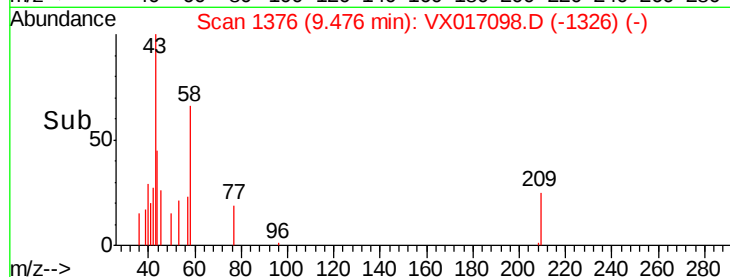
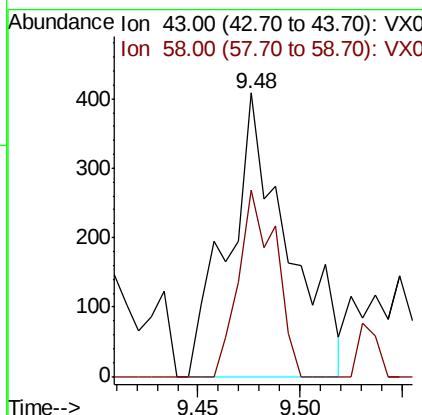
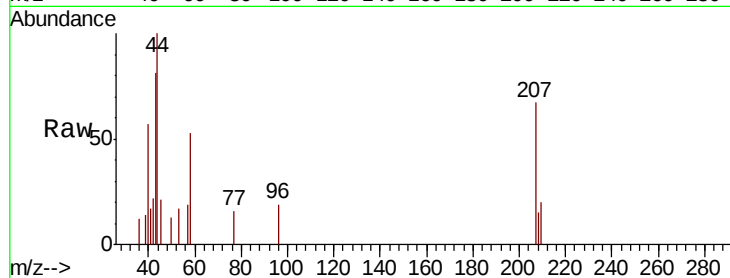




#59
2-Hexanone
Concen: 0.341 ug/l
RT: 9.48 min Scan# 1376
Delta R.T. 0.01 min
Lab File: VX017098.D
Acq: 01 Jul 2020 15:15

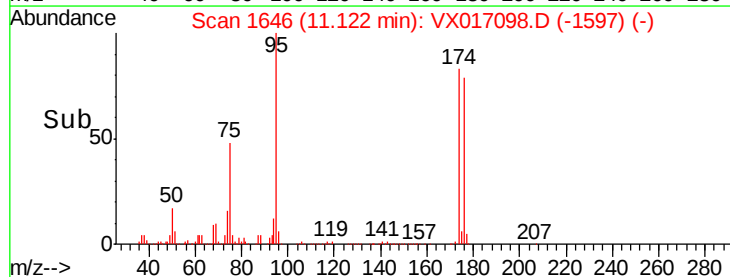
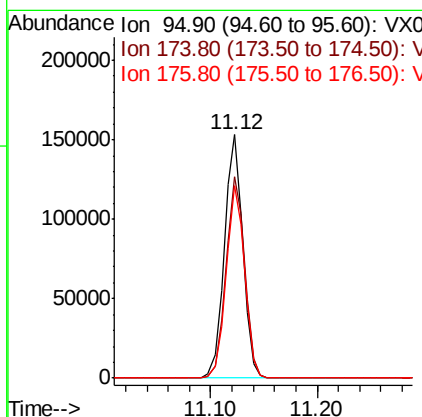
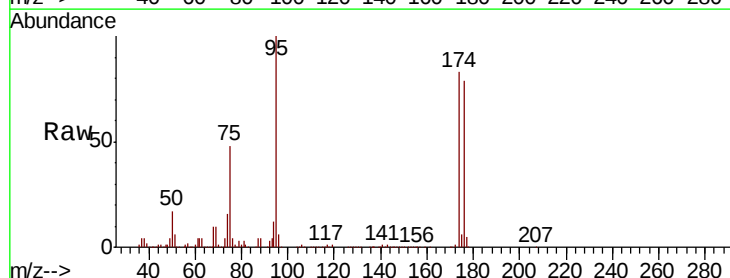
Instrument :
MSVOA_X
ClientSampleId :
1446

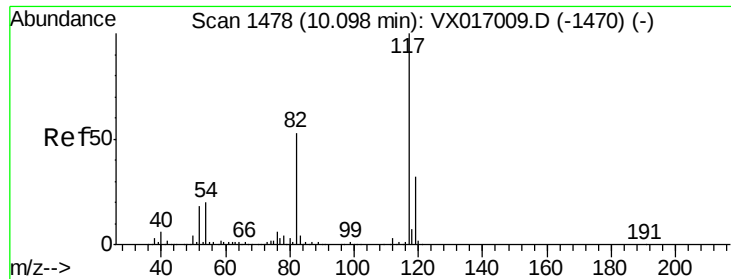
Tot Ion: 43 Resp: 819
Ion Ratio Lower Upper
43 100
58 41.1 27.9 83.6



#62
4-Bromofluorobenzene
Concen: 58.408 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017098.D
Acq: 01 Jul 2020 15:15

Tgt Ion: 95 Resp: 185124
Ion Ratio Lower Upper
95 100
174 84.5 0.0 164.0
176 80.0 0.0 157.6

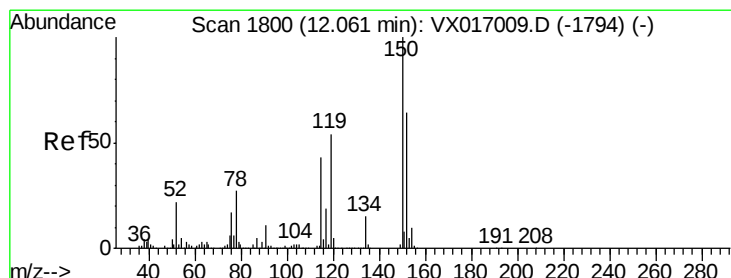
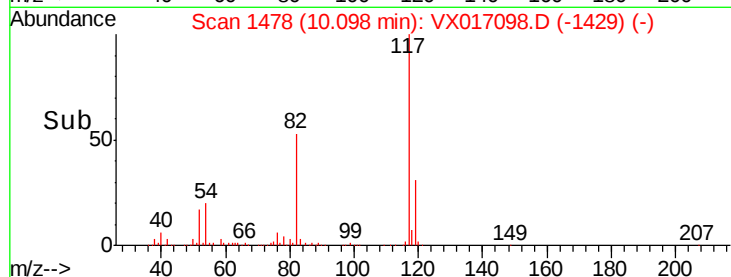
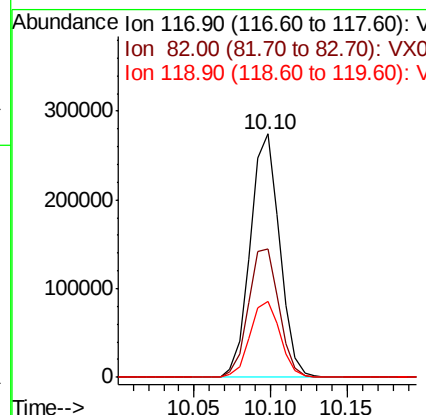
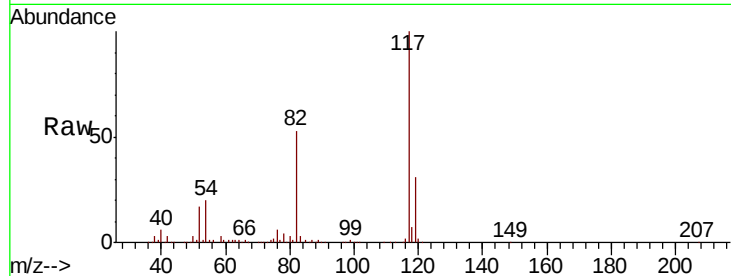




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017098.D
Acq: 01 Jul 2020 15:15

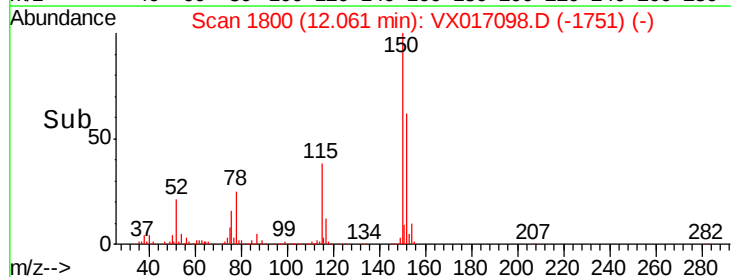
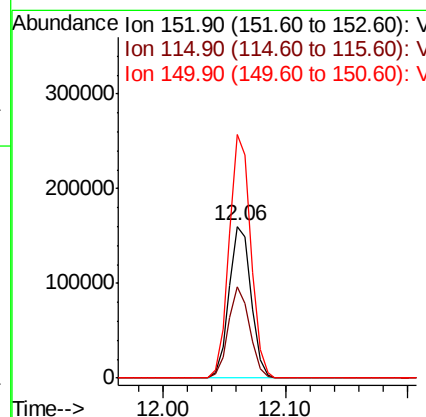
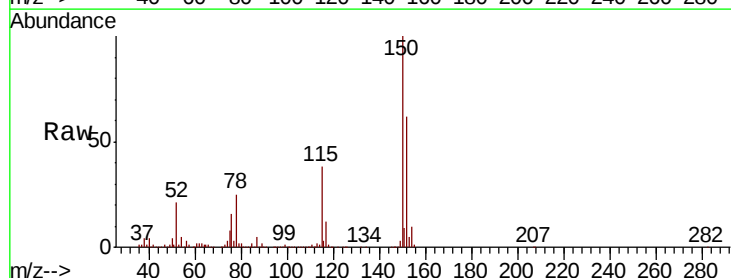
Instrument :
MSVOA_X
ClientSampleId :
1446

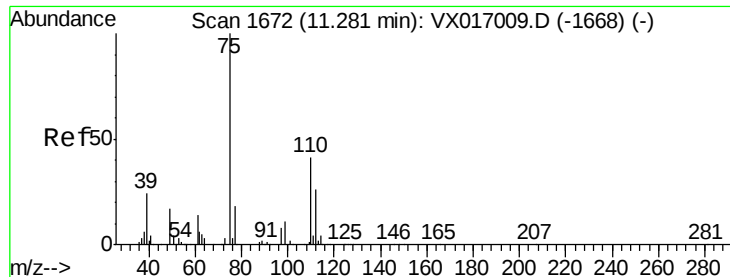
Tot Ion:117 Resp: 366412
Ion Ratio Lower Upper
117 100
82 52.6 42.6 63.8
119 31.2 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017098.D
Acq: 01 Jul 2020 15:15

Tgt Ion:152 Resp: 198285
Ion Ratio Lower Upper
152 100
115 58.4 40.9 122.7
150 158.2 0.0 351.6





#76

1,2,3-Trichloropropane

Concen: 23.549 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017098.D

Acq: 01 Jul 2020 15:15

Instrument :

MSVOA_X

ClientSampled :

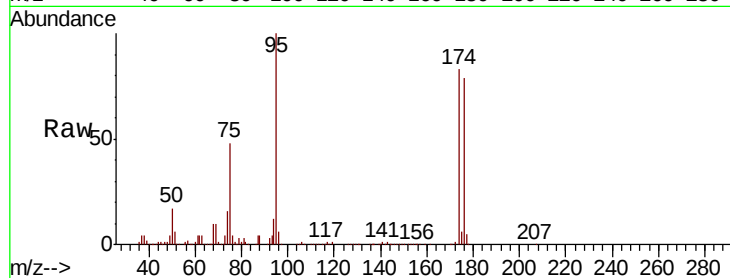
1446

Tot Ion: 75 Resp: 91820

Ion Ratio Lower Upper

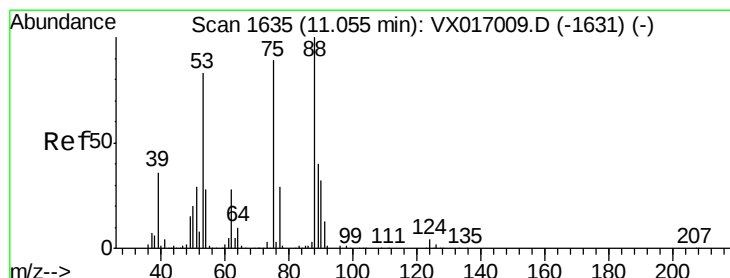
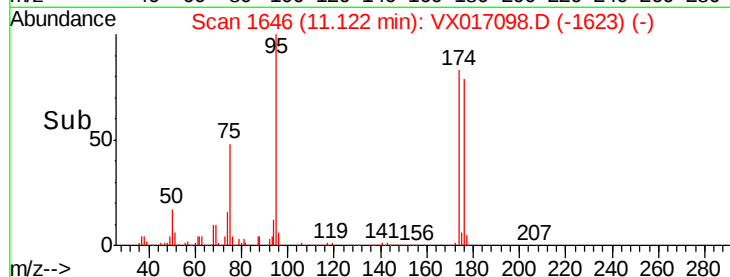
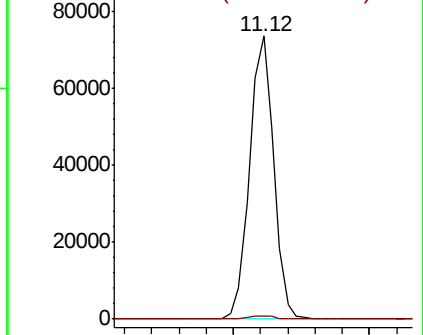
75 100

77 1.3 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: 60.983 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017098.D

Acq: 01 Jul 2020 15:15

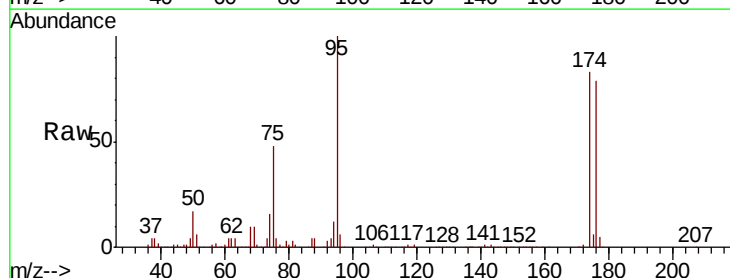
Tgt Ion: 75 Resp: 91820

Ion Ratio Lower Upper

75 100

53 0.2 72.4 108.6#

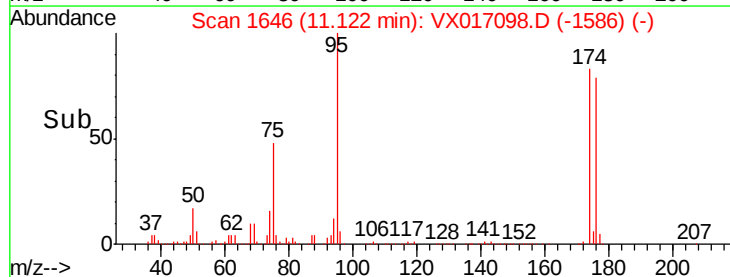
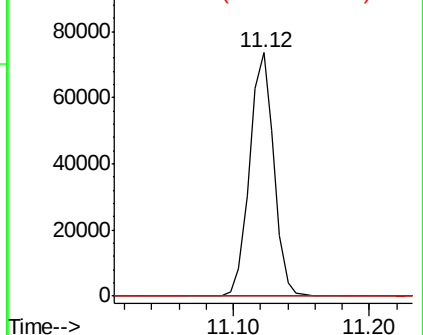
89 0.0 37.0 55.4#

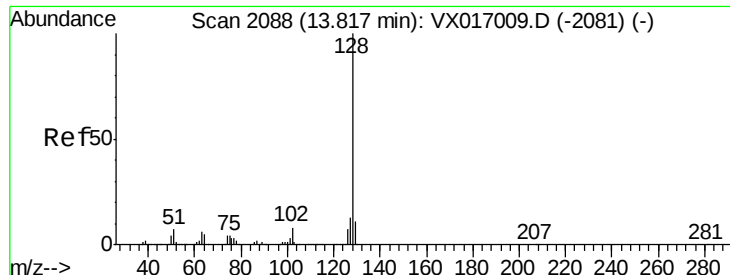


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95

Naphthalene

Concen: 0.430 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX017098.D

Acq: 01 Jul 2020 15:15

Instrument :

MSVOA_X

ClientSampleId :

1446

Tot Ion:128 Resp: 5405

Ion Ratio Lower Upper

128 100

127 16.1 10.2 15.4#

129 11.3 8.7 13.1

