

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070120\
 Data File : VX017101.D
 Acq On : 01 Jul 2020 16:23
 Operator : JC/SP
 Sample : L3129-11 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 1308

Quant Time: Jul 02 01:37:27 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	209922	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	342124	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	372797	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	205980	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	133957	51.76	ug/l	0.00
Spiked Amount			Recovery	=	103.52%	
35) Dibromofluoromethane	5.46	113	113122	52.27	ug/l	0.00
Spiked Amount			Recovery	=	104.54%	
50) Toluene-d8	8.70	98	427423	53.41	ug/l	0.00
Spiked Amount			Recovery	=	106.82%	
62) 4-Bromofluorobenzene	11.12	95	189908	60.71	ug/l	0.00
Spiked Amount			Recovery	=	121.42%	

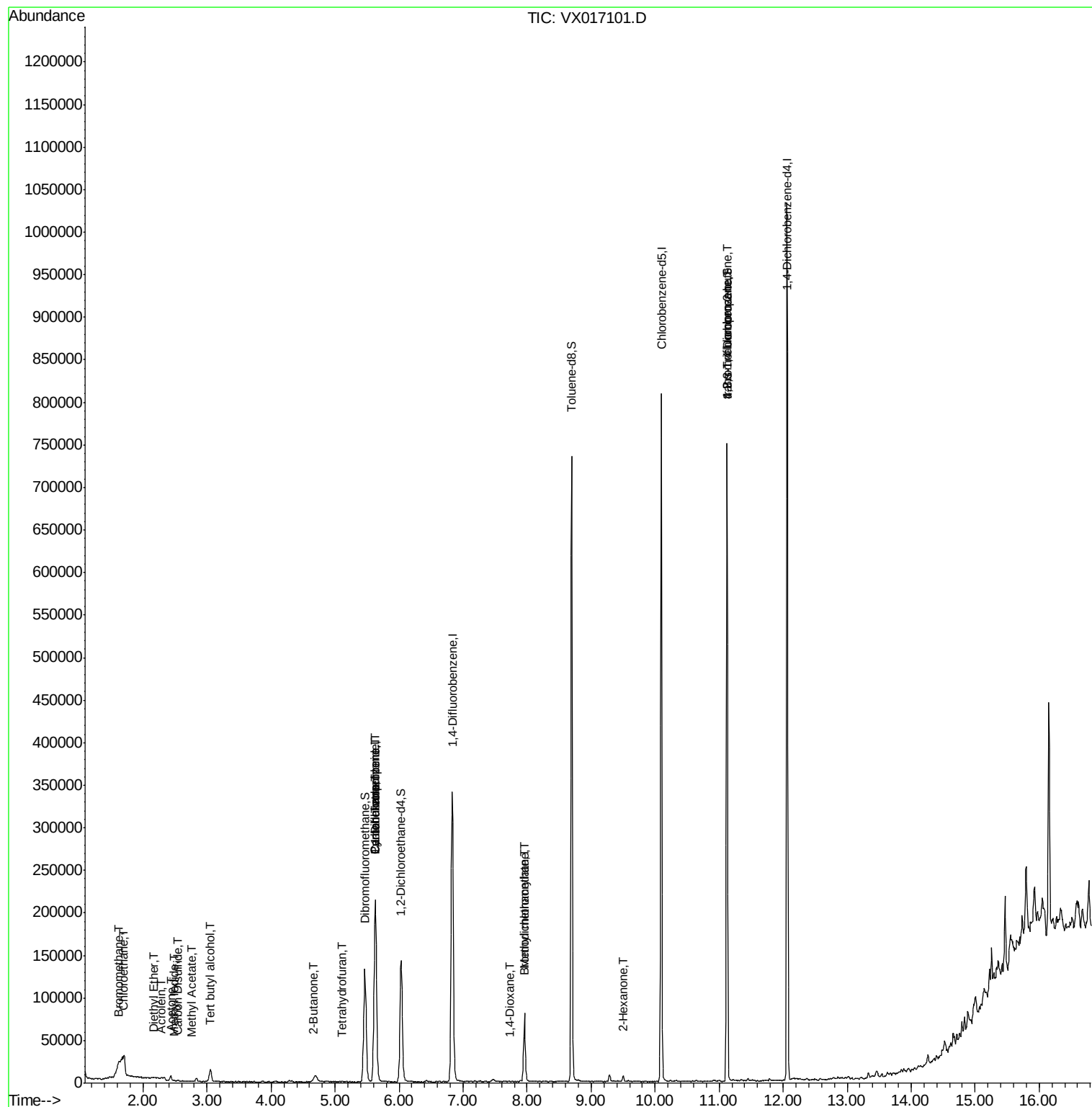
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.62	94	780	0.647	ug/l #	52
6) Chloroethane	1.69	64	491	0.364	ug/l #	27
8) Diethyl Ether	2.17	74	283	0.613	ug/l	57
10) Methyl Iodide	2.49	142	623	0.239	ug/l #	87
11) Tert butyl alcohol	3.05	59	19535	39.569	ug/l	98
13) Acrolein	2.28	56	369	1.250	ug/l #	54
16) Acetone	2.43	43	6491	6.705	ug/l	93
17) Carbon Disulfide	2.54	76	2229	0.407	ug/l #	56
18) Methyl Acetate	2.76	43	789	0.312	ug/l #	67
20) Methylene Chloride	2.82	84	1699	Below Cal	#	88
25) 2-Butanone	4.65	43	1440	0.893	ug/l	97
29) Tetrahydrofuran	5.11	42	777	0.729	ug/l #	54
31) Cyclohexane	5.64	56	4180	1.196	ug/l #	35
36) 1,1-Dichloropropene	5.63	75	14940	4.620	ug/l #	51
38) Carbon Tetrachloride	5.63	117	20011	5.619	ug/l #	17
44) Trichloroethene	7.20	130	97	Below Cal		41
47) Bromodichloromethane	7.95	83	917	0.267	ug/l #	1
48) Methyl methacrylate	7.96	41	31902	12.317	ug/l #	32
49) 1,4-Dioxane	7.72	88	82	1.397	ug/l #	24
59) 2-Hexanone	9.51	43	960	0.404	ug/l	90
76) 1,2,3-Trichloropropane	11.12	75	95051	23.467	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	95051	60.770	ug/l #	13
88) 1,4-Dichlorobenzene	12.07	146	567	Below Cal	#	1

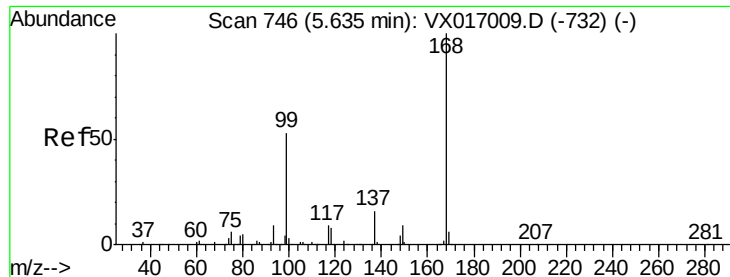
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017101.D

Acq: 01 Jul 2020 16:23

Instrument :

MSVOA_X

ClientSampled :

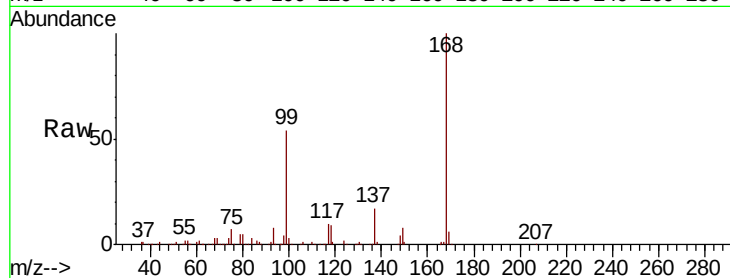
1308

Tot Ion:168 Resp: 209922

Ion Ratio Lower Upper

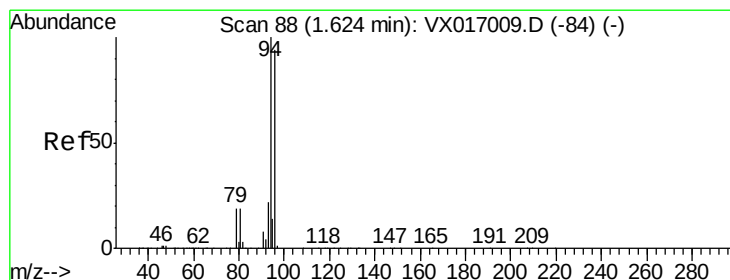
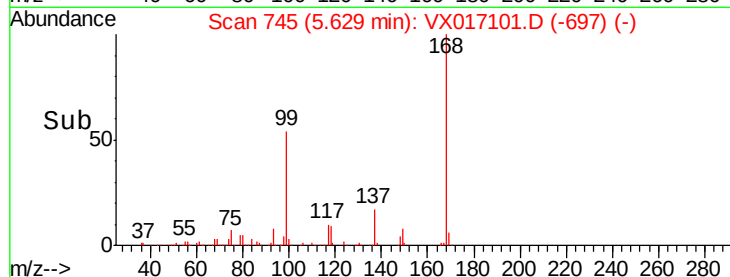
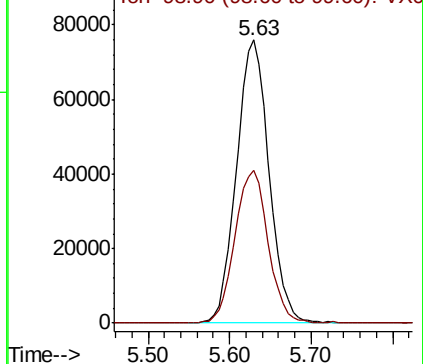
168 100

99 54.1 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: 0.647 ug/l

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VX017101.D

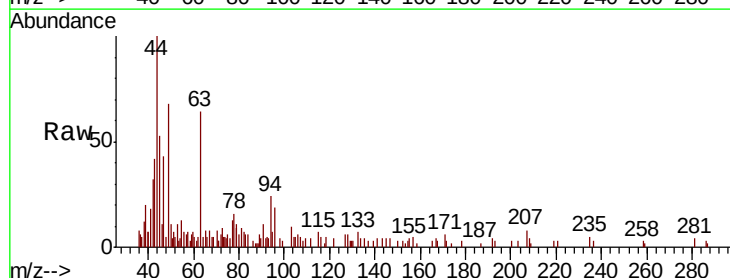
Acq: 01 Jul 2020 16:23

Tgt Ion: 94 Resp: 780

Ion Ratio Lower Upper

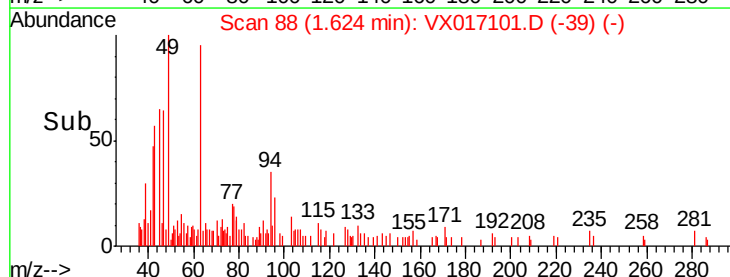
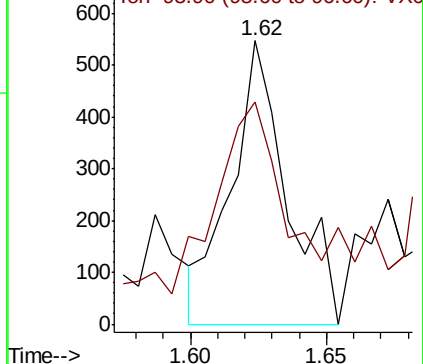
94 100

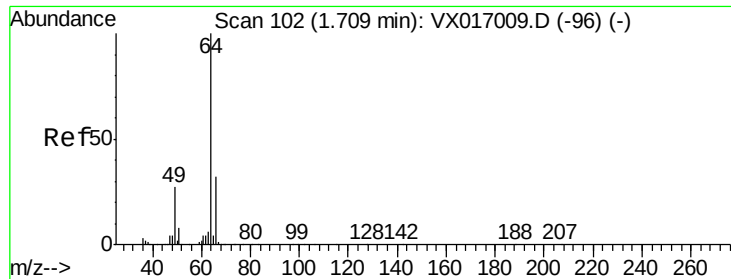
96 47.5 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.364 ug/l

RT: 1.69 min Scan# 99

Delta R.T. -0.02 min

Lab File: VX017101.D

Acq: 01 Jul 2020 16:23

Instrument :

MSVOA_X

ClientSampled :

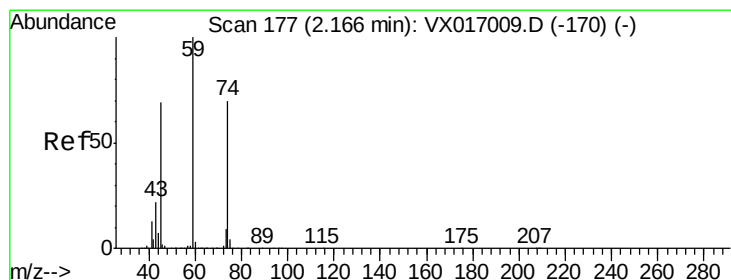
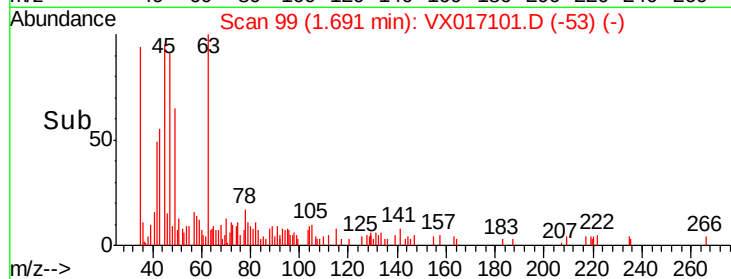
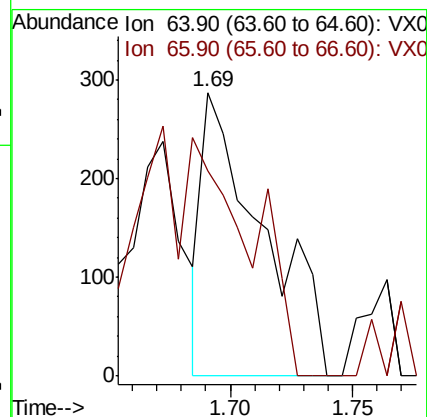
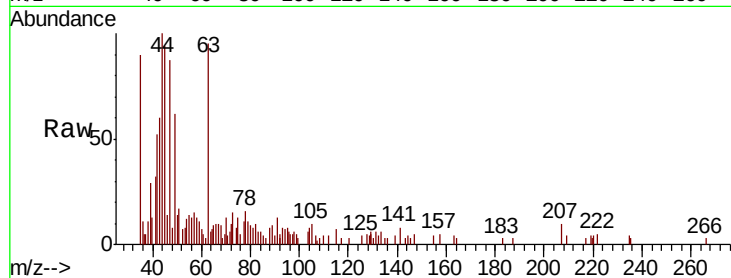
1308

Tot Ion: 64 Resp: 491

Ion Ratio Lower Upper

64 100

66 72.5 25.5 38.3#



#8

Diethyl Ether

Concen: 0.613 ug/l

RT: 2.17 min Scan# 177

Delta R.T. 0.00 min

Lab File: VX017101.D

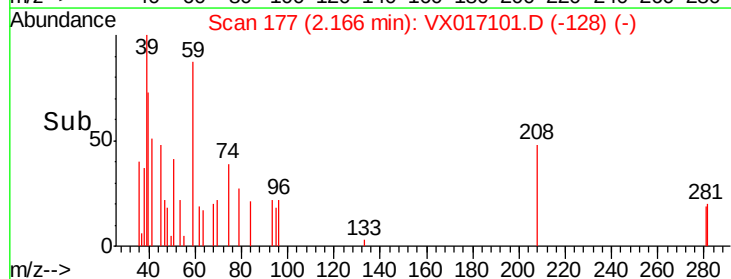
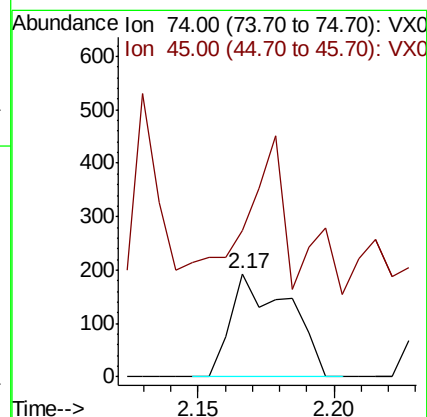
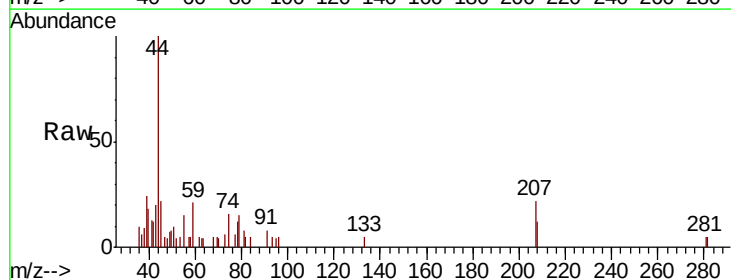
Acq: 01 Jul 2020 16:23

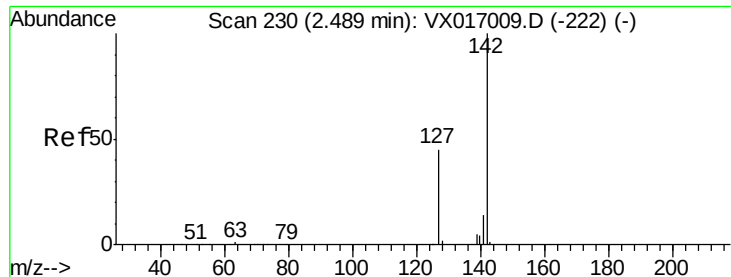
Tgt Ion: 74 Resp: 283

Ion Ratio Lower Upper

74 100

45 56.5 49.8 149.3

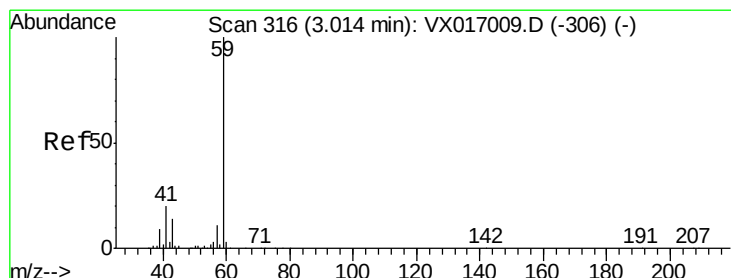
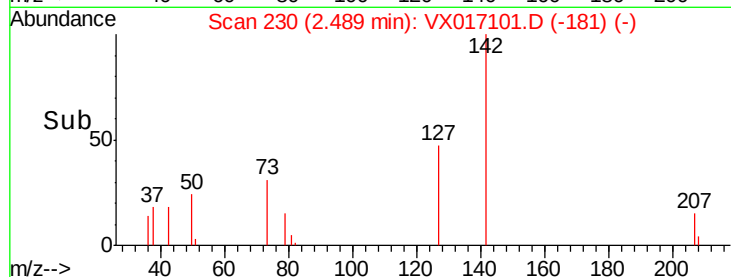
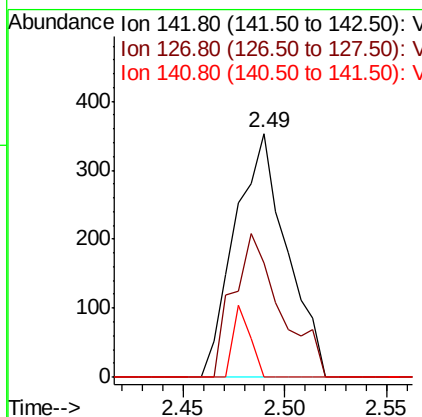
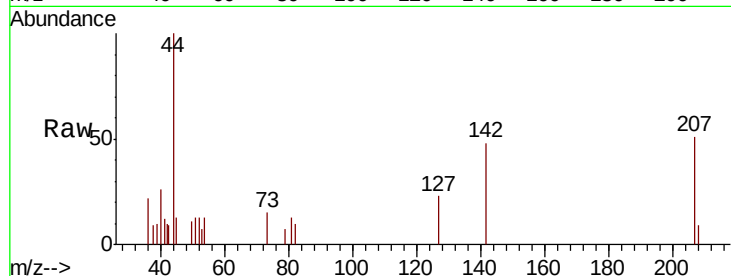




#10
Methvl Iodide
Concen: 0.239 ug/l
RT: 2.49 min Scan# 230
Delta R.T. -0.00 min
Lab File: VX017101.D
Acq: 01 Jul 2020 16:23

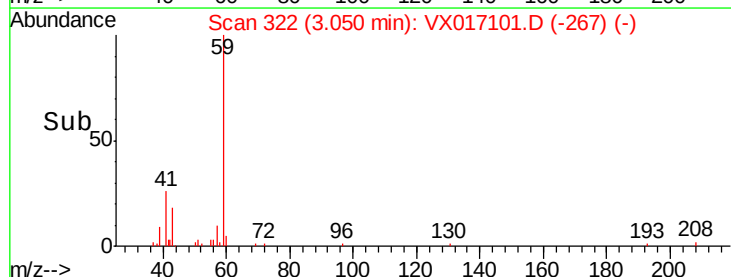
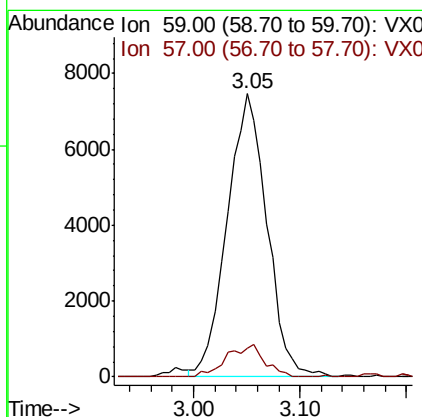
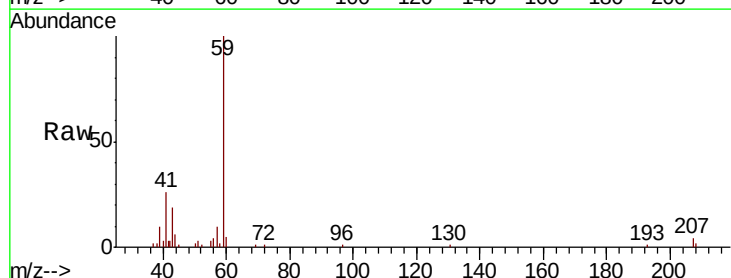
Instrument :
MSVOA_X
ClientSampleId :
1308

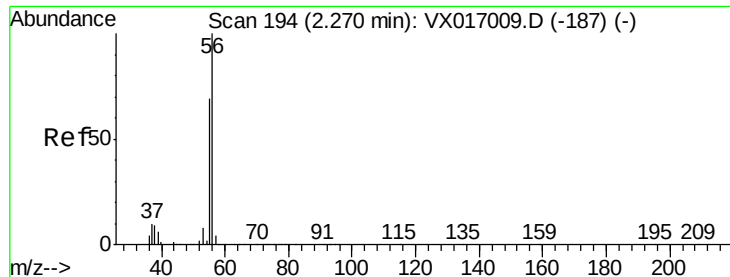
Tot Ion:142 Resp: 623
Ion Ratio Lower Upper
142 100
127 54.3 36.6 54.8
141 9.5 11.6 17.4#



#11
Tert butyl alcohol
Concen: 39.569 ug/l
RT: 3.05 min Scan# 322
Delta R.T. 0.04 min
Lab File: VX017101.D
Acq: 01 Jul 2020 16:23

Tgt Ion: 59 Resp: 19535
Ion Ratio Lower Upper
59 100
57 10.8 8.2 12.2

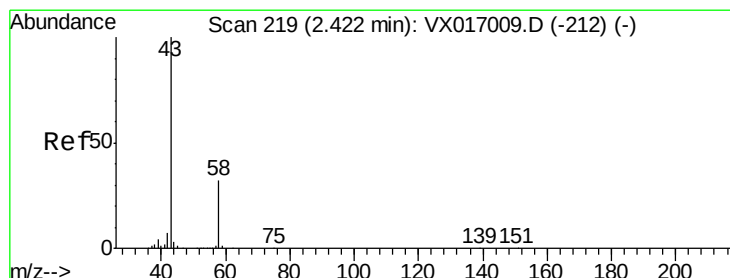
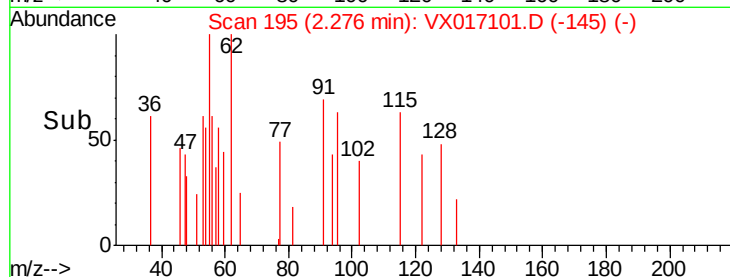
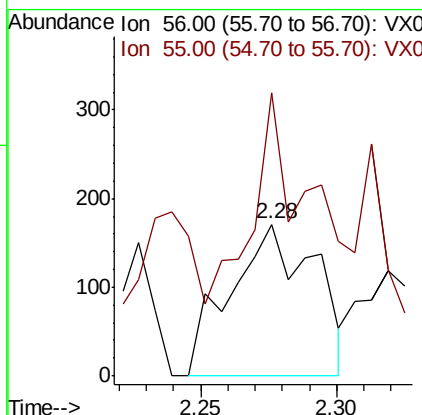
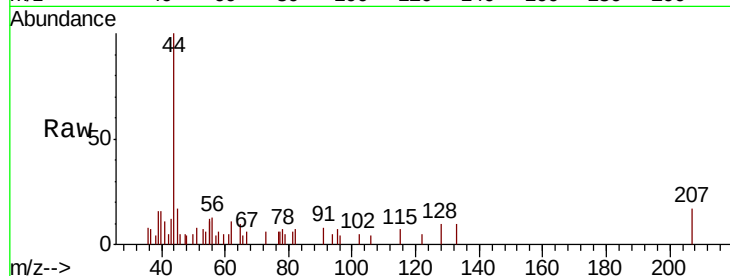




#13
Acrolein
Concen: 1.250 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.01 min
Lab File: VX017101.D
Acq: 01 Jul 2020 16:23

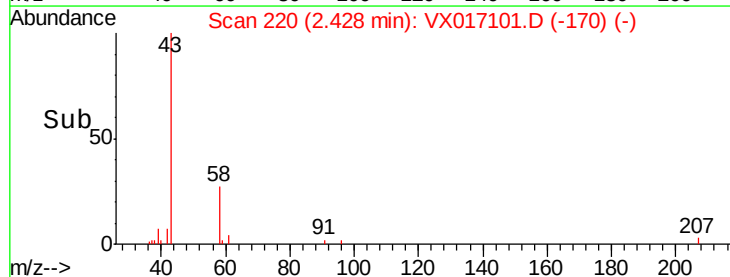
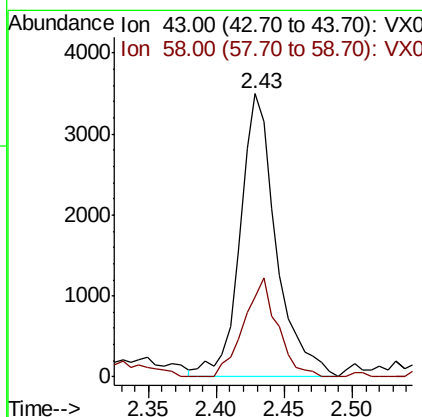
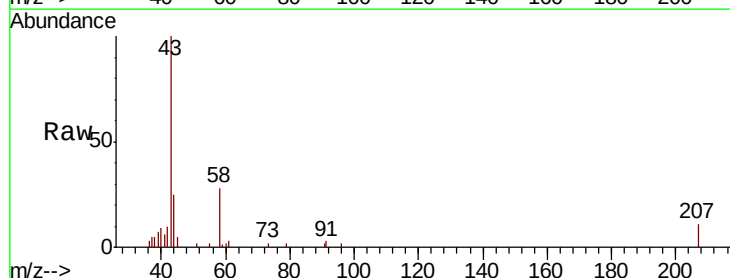
Instrument :
MSVOA_X
ClientSampled :
1308

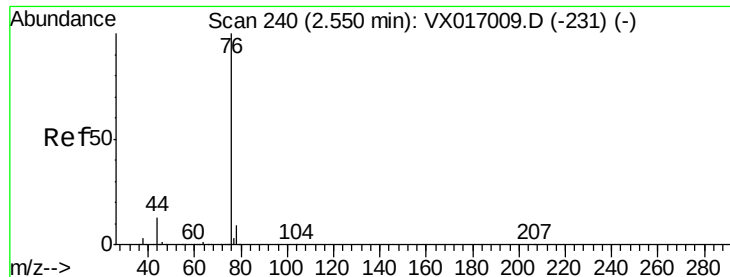
Tot Ion: 56 Resp: 369
Ion Ratio Lower Upper
56 100
55 107.6 55.7 83.5#



#16
Acetone
Concen: 6.705 ug/l
RT: 2.43 min Scan# 220
Delta R.T. 0.01 min
Lab File: VX017101.D
Acq: 01 Jul 2020 16:23

Tgt Ion: 43 Resp: 6491
Ion Ratio Lower Upper
43 100
58 28.2 25.7 38.5





#17

Carbon Disulfide

Concen: 0.407 ug/l

RT: 2.54 min Scan# 238

Delta R.T. -0.01 min

Lab File: VX017101.D

Acq: 01 Jul 2020 16:23

Instrument :

MSVOA_X

ClientSampleId :

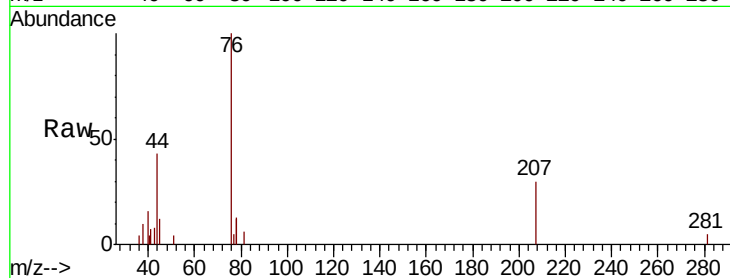
1308

Tot Ion: 76 Resp: 2229

Ion Ratio Lower Upper

76 100

78 25.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

1500

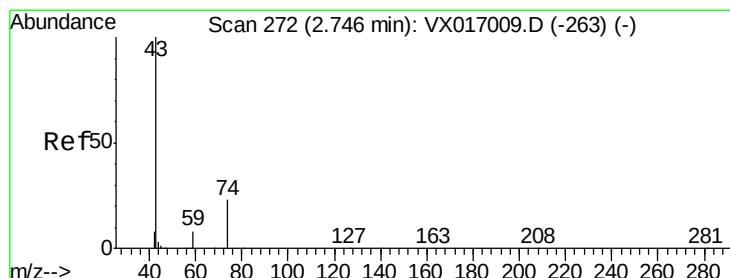
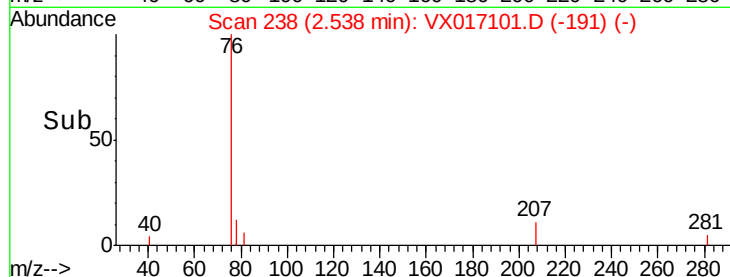
1000

500

0

2.45 2.50 2.55 2.60

Time-->



#18

Methyl Acetate

Concen: 0.312 ug/l

RT: 2.76 min Scan# 274

Delta R.T. 0.01 min

Lab File: VX017101.D

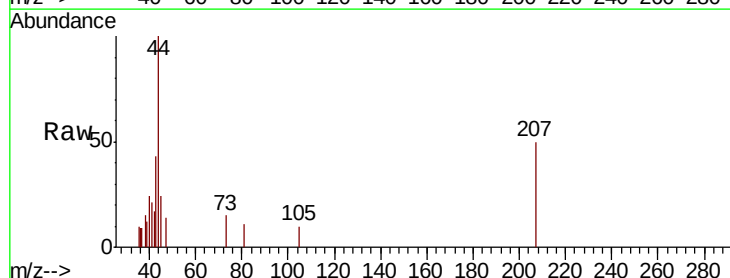
Acq: 01 Jul 2020 16:23

Tgt Ion: 43 Resp: 789

Ion Ratio Lower Upper

43 100

74 7.9 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

300

250

200

150

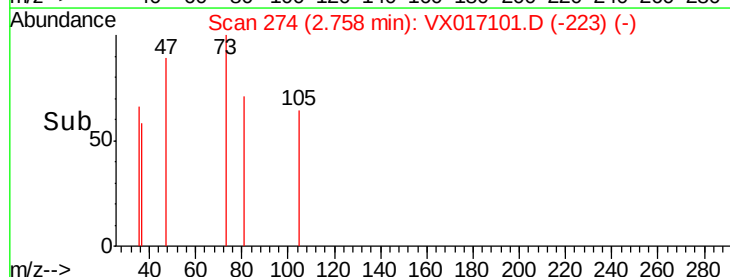
100

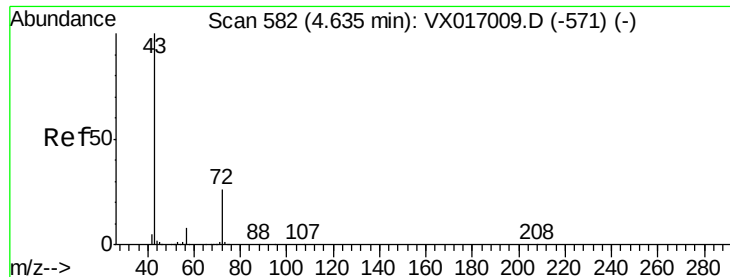
50

0

2.70 2.75 2.80

Time-->

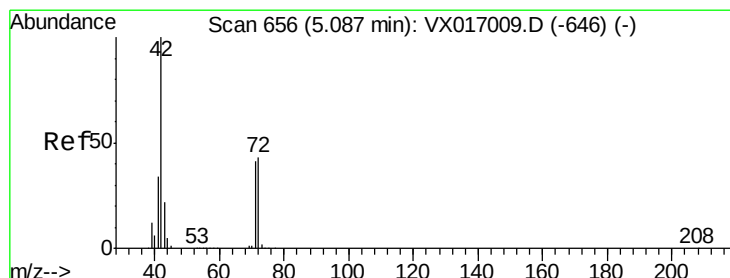
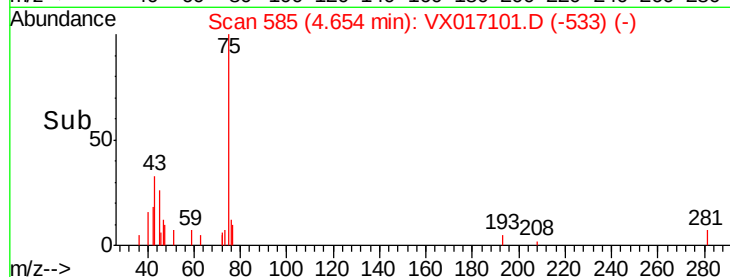
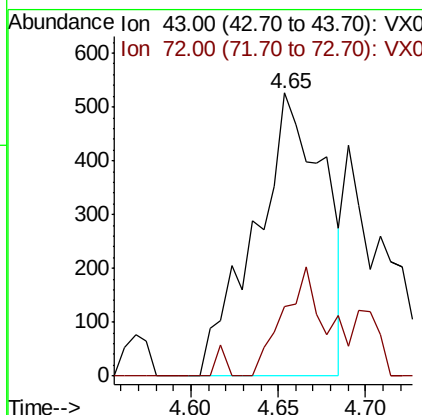
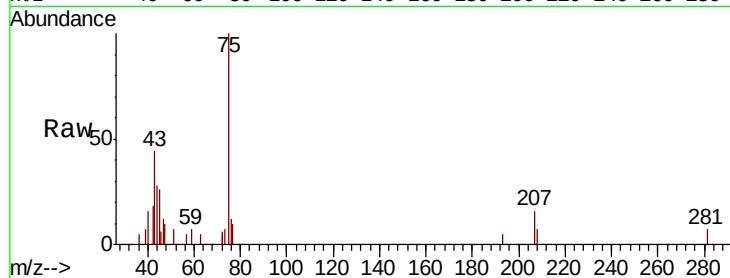




#25
2-Butanone
Concen: 0.893 ug/l
RT: 4.65 min Scan# 585
Delta R.T. 0.02 min
Lab File: VX017101.D
Acq: 01 Jul 2020 16:23

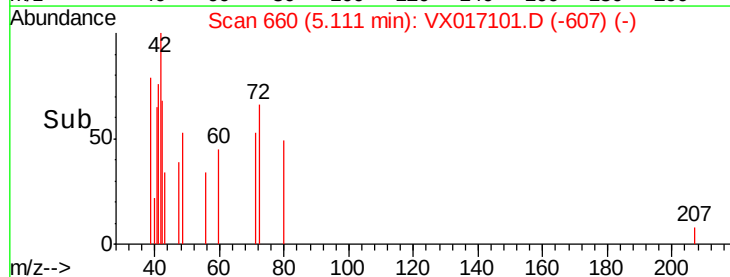
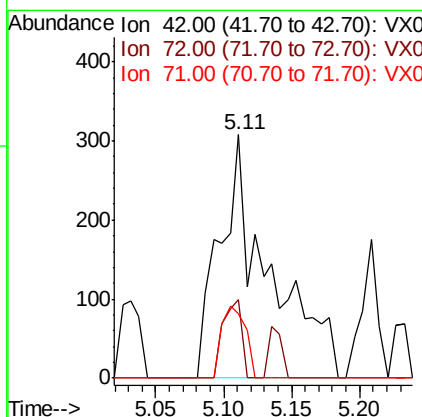
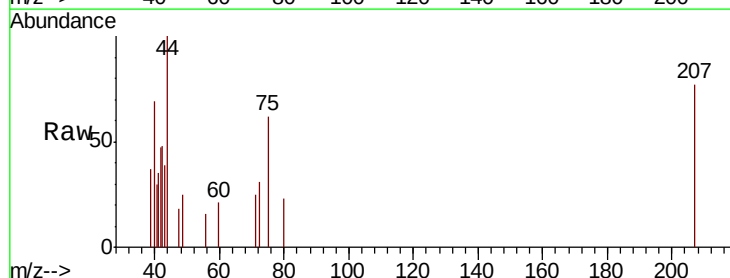
Instrument :
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1308

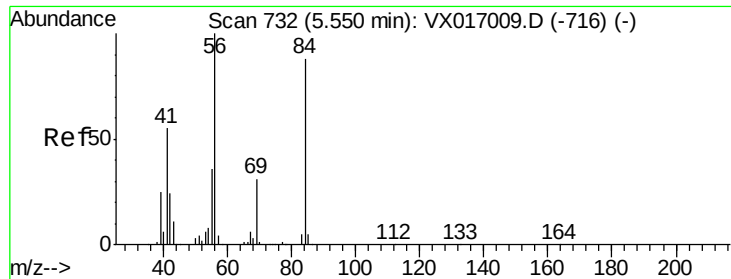
Tot Ion: 43 Resp: 1440
Ion Ratio Lower Upper
43 100
72 24.5 20.8 31.2



#29
Tetrahydrofuran
Concen: 0.729 ug/l
RT: 5.11 min Scan# 660
Delta R.T. 0.02 min
Lab File: VX017101.D
Acq: 01 Jul 2020 16:23

Tgt Ion: 42 Resp: 777
Ion Ratio Lower Upper
42 100
72 12.1 35.3 52.9#
71 14.3 33.1 49.7#

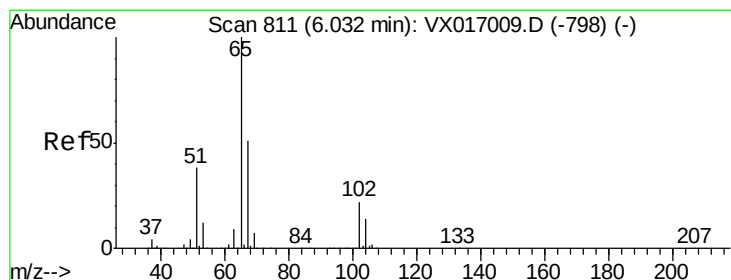
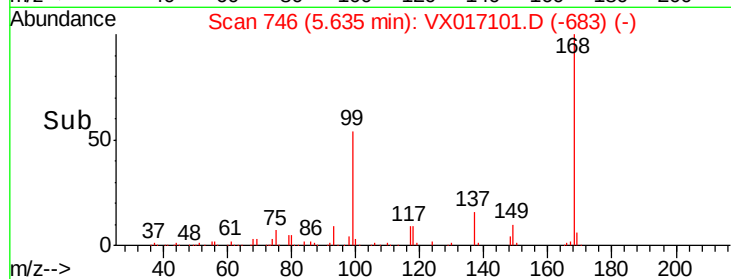
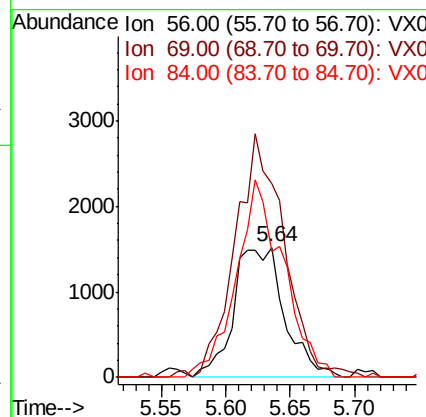
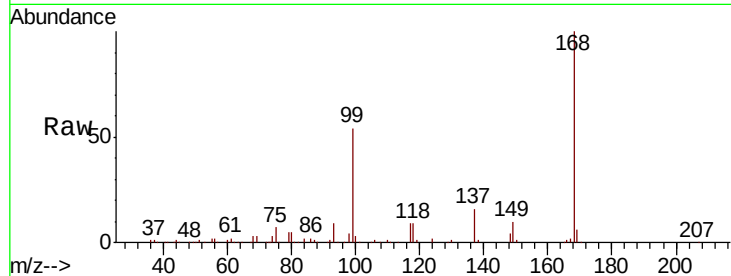




#31
Cyclohexane
Concen: 1.196 ug/l
RT: 5.64 min Scan# 746
Delta R.T. 0.09 min
Lab File: VX017101.D
Acq: 01 Jul 2020 16:23

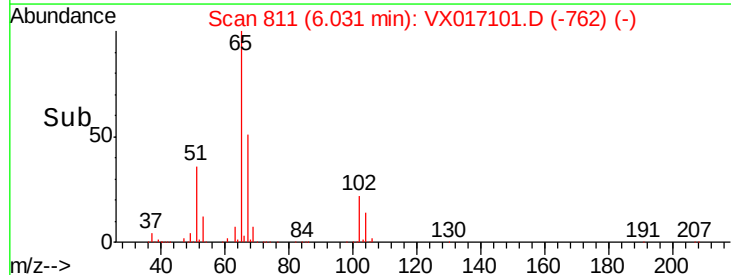
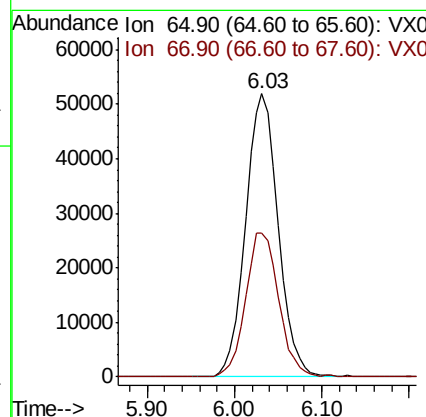
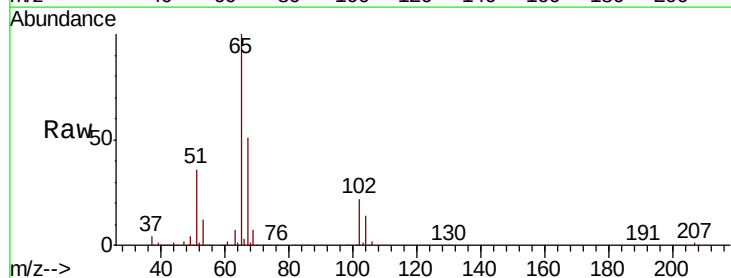
Instrument :
MSVOA_X
ClientSampleId :
1308

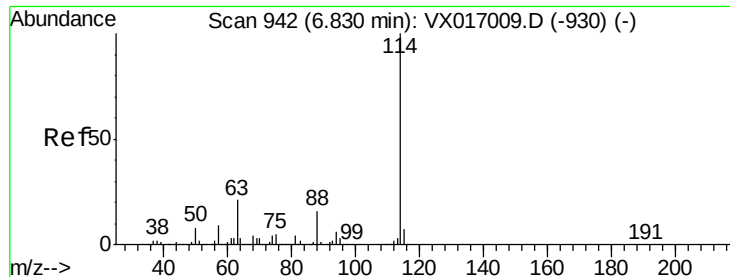
Tot Ion: 56 Resp: 4180
Ion Ratio Lower Upper
56 100
69 149.0 25.0 37.4#
84 96.6 69.1 103.7



#33
1,2-Dichloroethane-d4
Concen: 51.762 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX017101.D
Acq: 01 Jul 2020 16:23

Tgt Ion: 65 Resp: 133957
Ion Ratio Lower Upper
65 100
67 52.0 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: VX017101.D

Acq: 01 Jul 2020 16:23

Instrument :

MSVOA_X

ClientSampleId :

1308

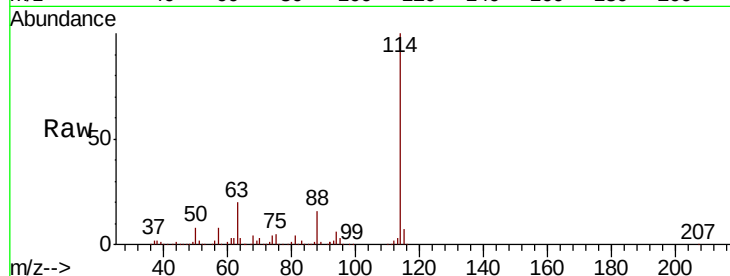
Tot Ion:114 Resp: 342124

Ion Ratio Lower Upper

114 100

63 20.0 0.0 41.4

88 16.0 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

200000

150000

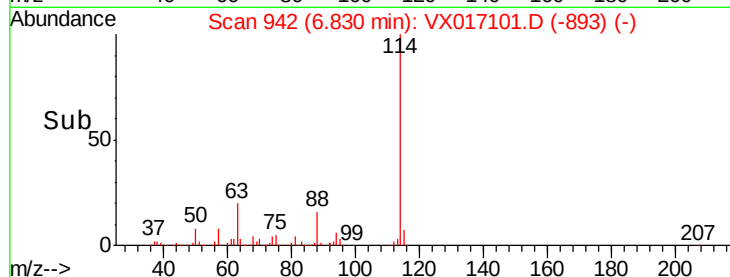
100000

50000

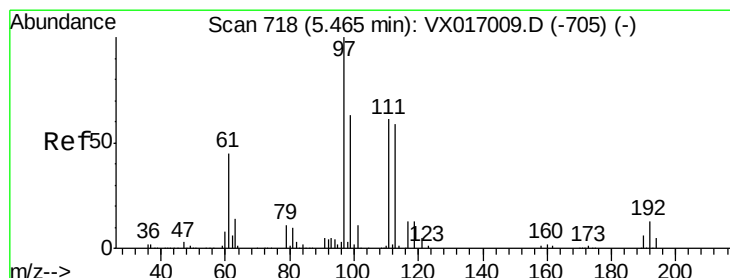
0

6.83

6.70 6.80 6.90



Time-->



#35

Dibromofluoromethane

Concen: 52.270 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX017101.D

Acq: 01 Jul 2020 16:23

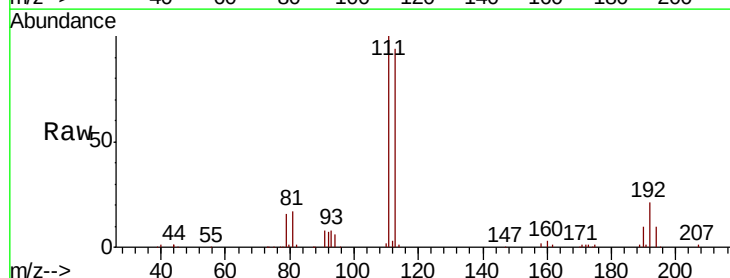
Tgt Ion:113 Resp: 113122

Ion Ratio Lower Upper

113 100

111 102.7 81.9 122.9

192 21.3 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

50000

40000

30000

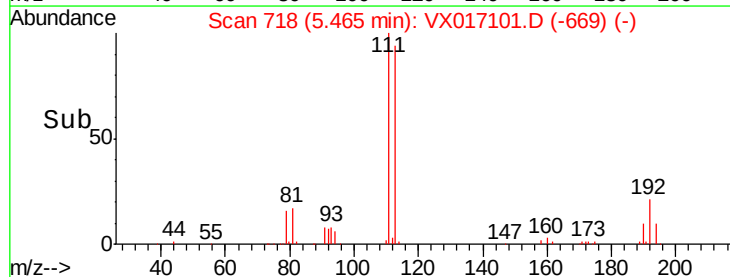
20000

10000

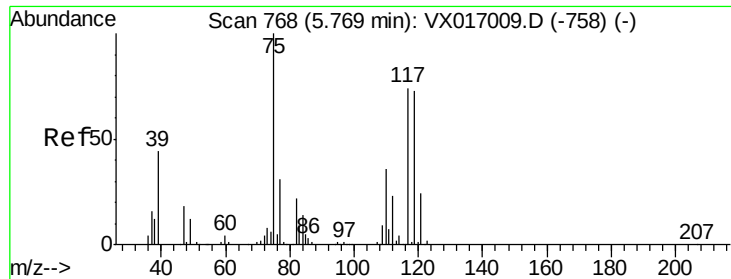
0

5.46

5.40 5.50 5.60



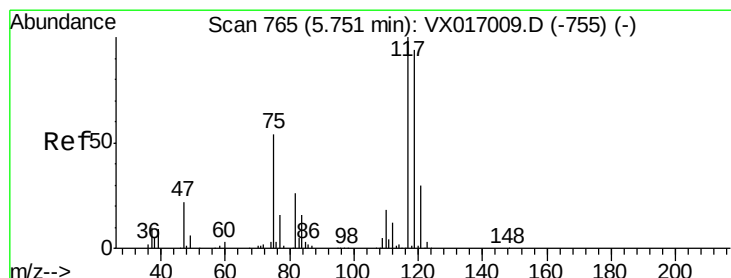
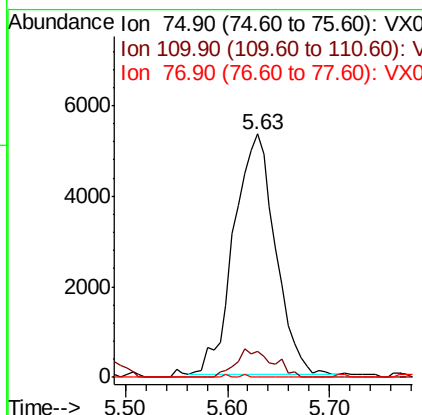
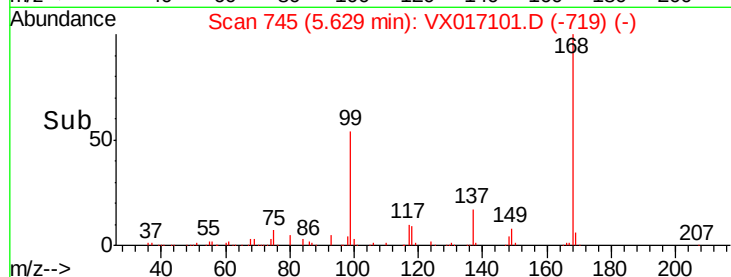
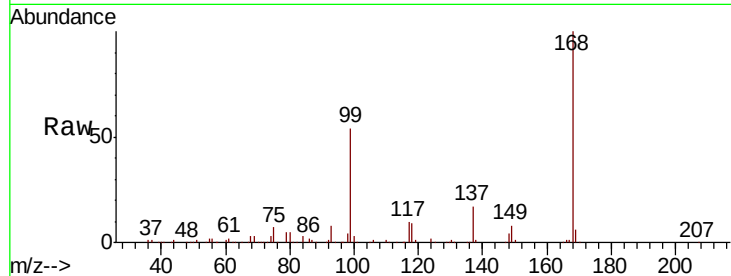
Time-->



#36
 1,1-Dichloropropene
 Concen: 4.620 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017101.D
 Acq: 01 Jul 2020 16:23

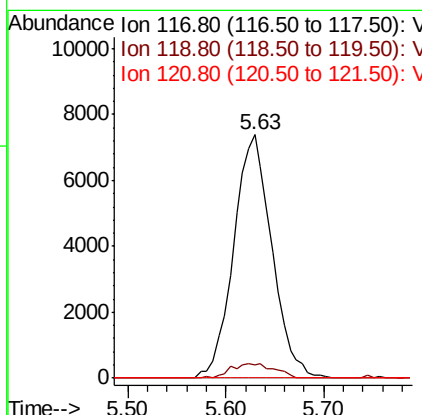
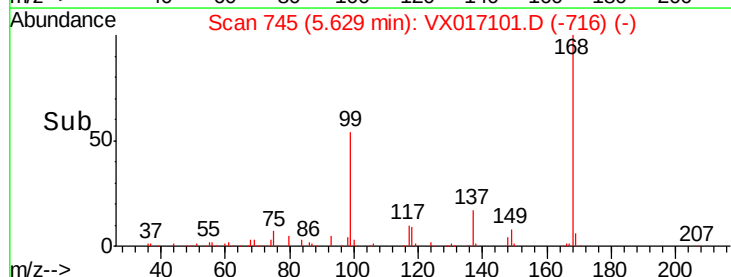
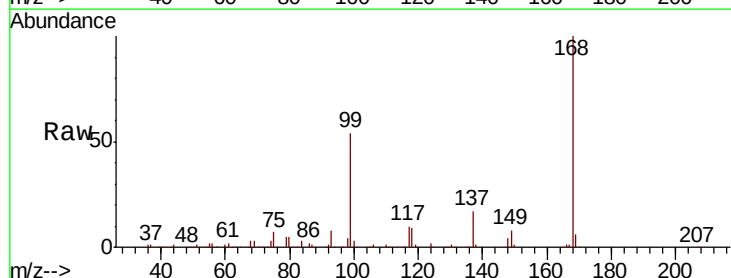
Instrument :
 MSVOA_X
 ClientSampleId :
 1308

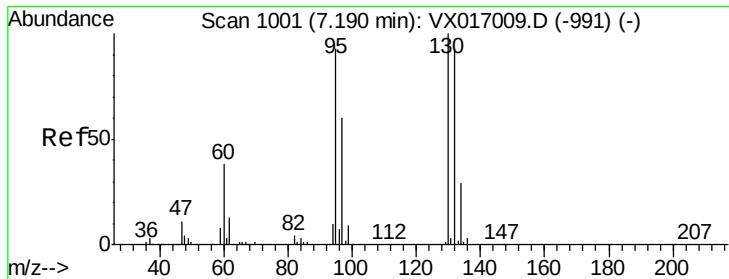
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.5	18.1	54.1#
77	0.2	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 5.619 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX017101.D
 Acq: 01 Jul 2020 16:23

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	75.4	113.0#
121	0.0	23.8	35.6#





#44

Trichloroethene

Concen: Below Cal

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX017101.D

Acq: 01 Jul 2020 16:23

Instrument :

MSVOA_X

ClientSampled :

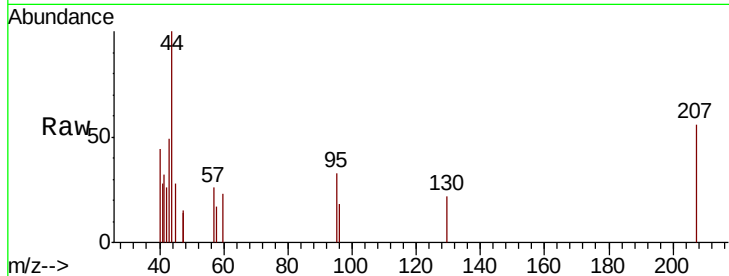
1308

Tot Ion:130 Resp: 97

Ion Ratio Lower Upper

130 100

95 149.4 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

150

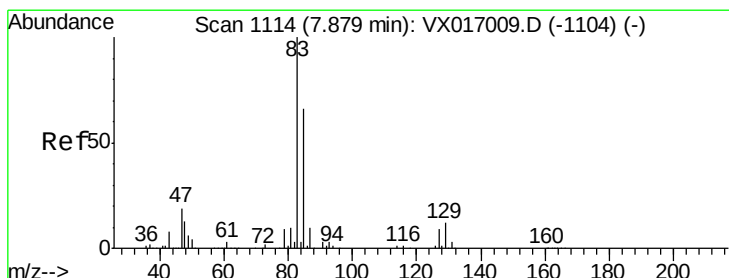
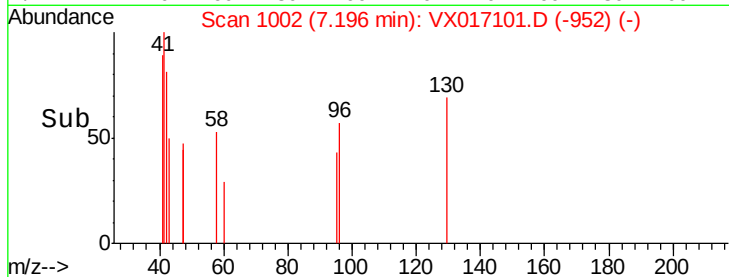
100

50

0

7.16 7.18 7.20 7.22

Time-->



#47

Bromodichloromethane

Concen: 0.267 ug/l

RT: 7.95 min Scan# 1125

Delta R.T. 0.07 min

Lab File: VX017101.D

Acq: 01 Jul 2020 16:23

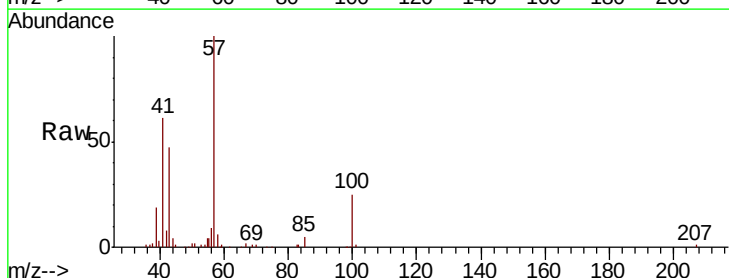
Tgt Ion: 83 Resp: 917

Ion Ratio Lower Upper

83 100

85 174.0 53.0 79.4#

127 0.0 7.5 11.3#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V

3000

2500

2000

1500

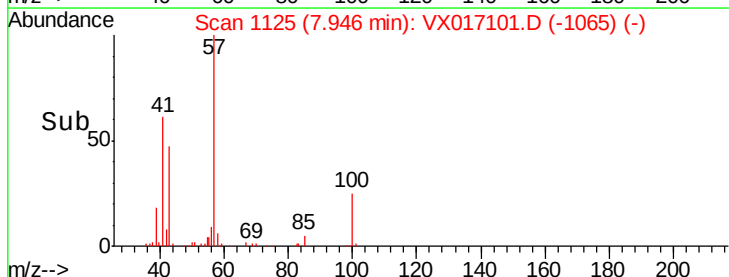
1000

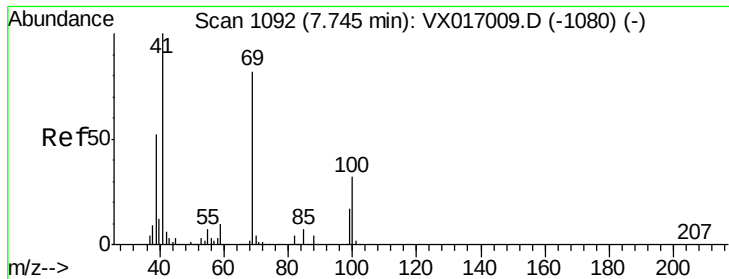
500

0

7.90 7.95 8.00

Time-->

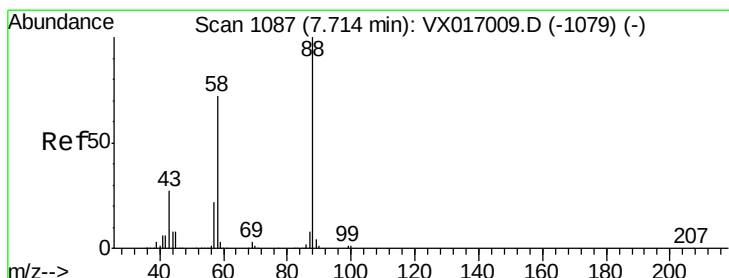
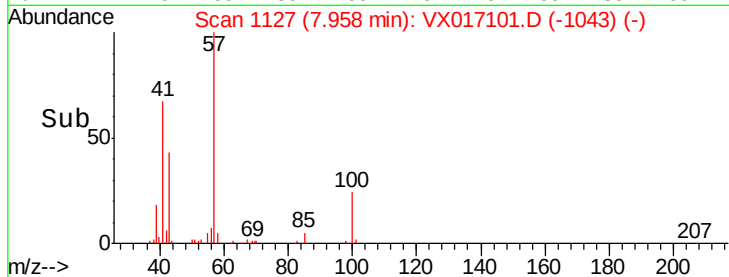
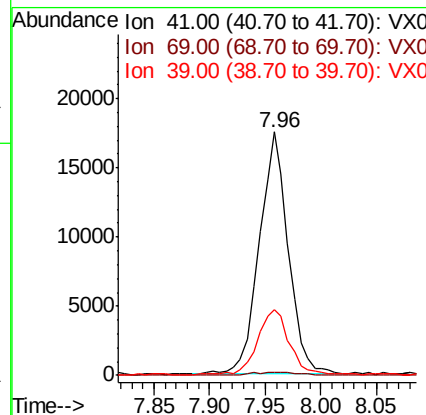
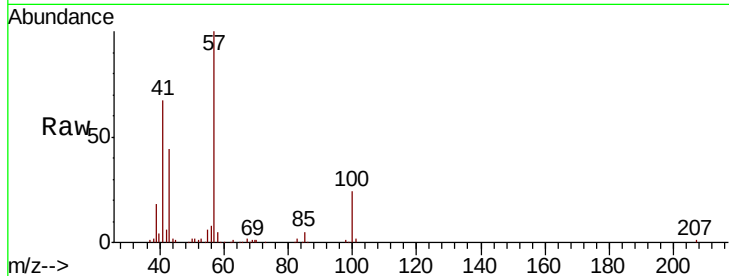




#48
Methvl methacrylate
Concen: 12.317 ug/l
RT: 7.96 min Scan# 1127
Delta R.T. 0.21 min
Lab File: VX017101.D
Acq: 01 Jul 2020 16:23

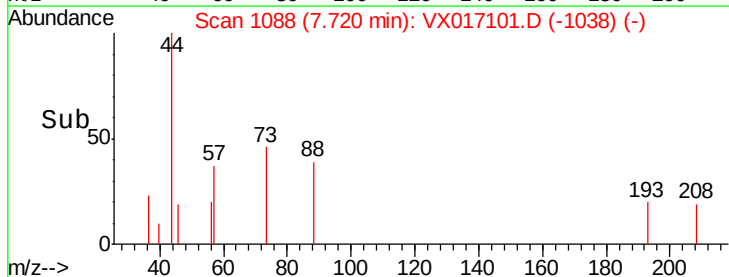
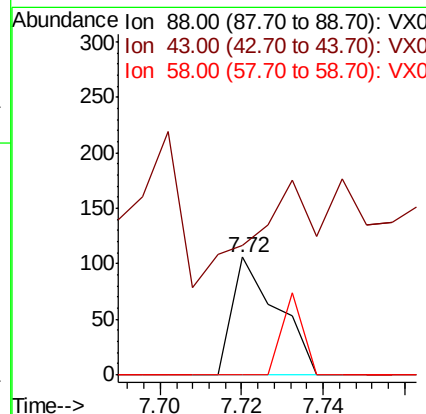
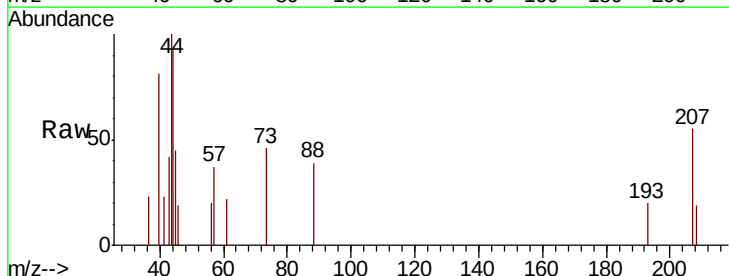
Instrument :
MSVOA_X
ClientSampleId :
1308

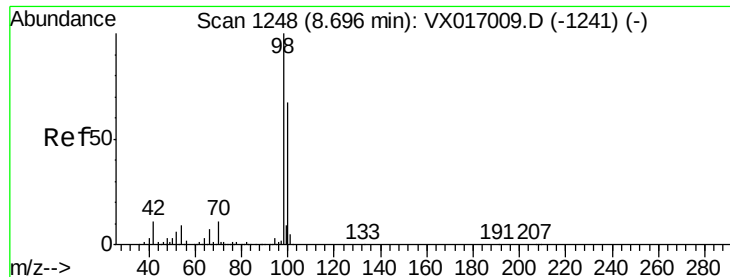
Tot Ion: 41 Resp: 31902
Ion Ratio Lower Upper
41 100
69 2.0 65.8 98.8#
39 28.3 42.5 63.7#



#49
1,4-Dioxane
Concen: 1.397 ug/l
RT: 7.72 min Scan# 1088
Delta R.T. 0.01 min
Lab File: VX017101.D
Acq: 01 Jul 2020 16:23

Tgt Ion: 88 Resp: 82
Ion Ratio Lower Upper
88 100
43 0.0 25.8 38.8#
58 0.0 54.8 82.2#

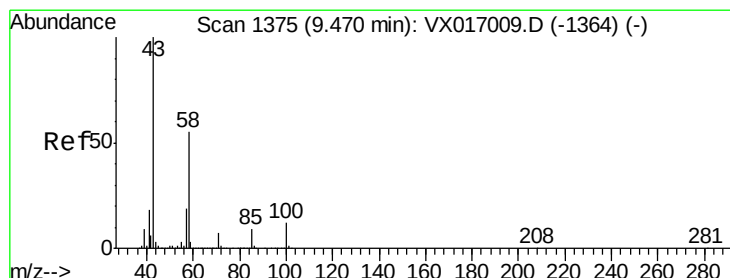
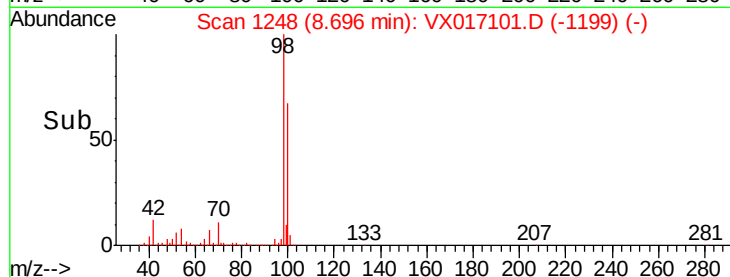
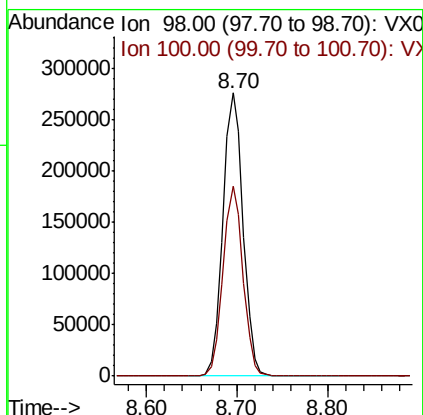
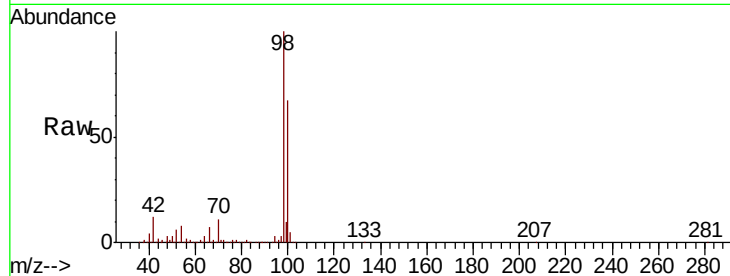




#50
Toluene-d8
Concen: 53.410 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017101.D
Acq: 01 Jul 2020 16:23

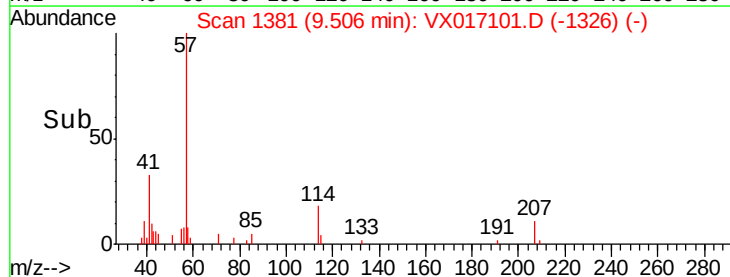
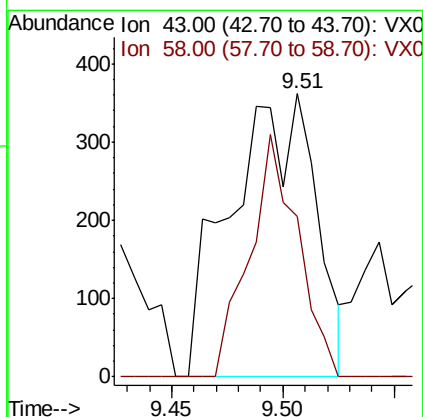
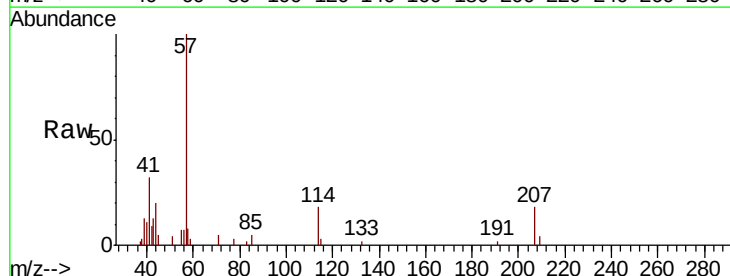
Instrument :
MSVOA_X
ClientSampleId :
1308

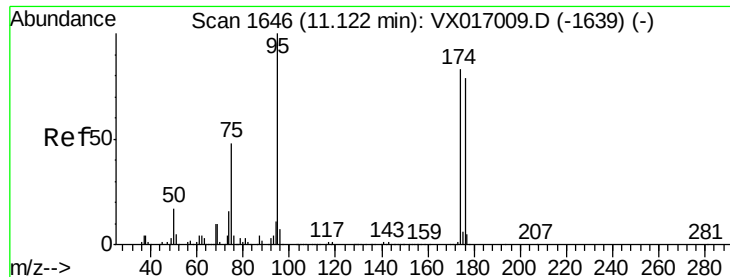
Tot Ion: 98 Resp: 427423
Ion Ratio Lower Upper
98 100
100 66.6 53.8 80.6



#59
2-Hexanone
Concen: 0.404 ug/l
RT: 9.51 min Scan# 1381
Delta R.T. 0.04 min
Lab File: VX017101.D
Acq: 01 Jul 2020 16:23

Tgt Ion: 43 Resp: 960
Ion Ratio Lower Upper
43 100
58 48.6 27.9 83.6





#62

4-Bromofluorobenzene

Concen: 60.706 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017101.D

Acq: 01 Jul 2020 16:23

Instrument :

MSVOA_X

ClientSampled :

1308

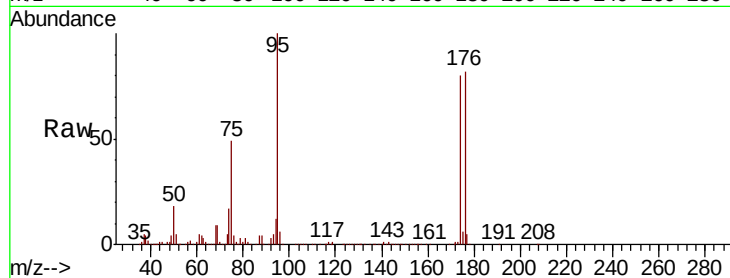
Tot Ion: 95 Resp: 189908

Ion Ratio Lower Upper

95 100

174 81.1 0.0 164.0

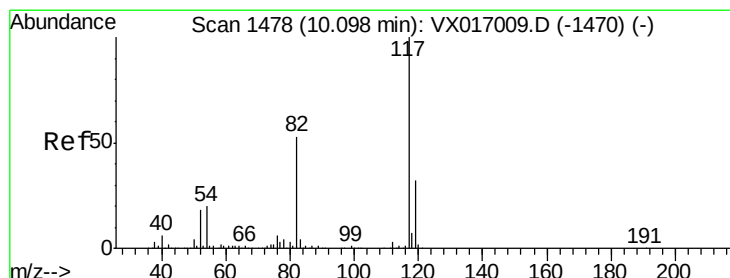
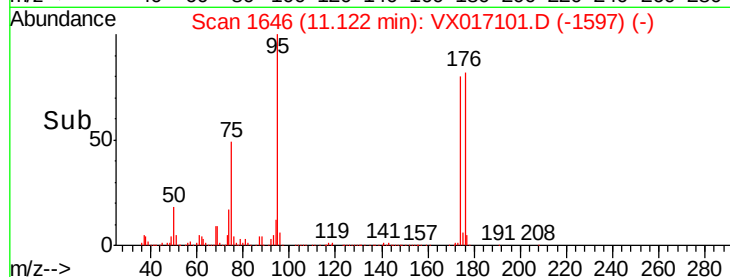
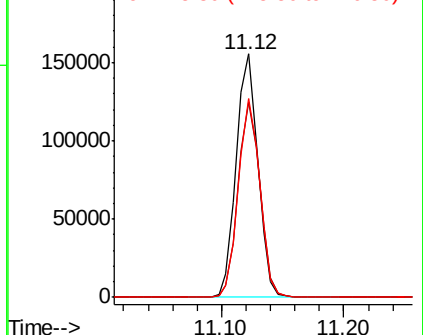
176 80.9 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017101.D

Acq: 01 Jul 2020 16:23

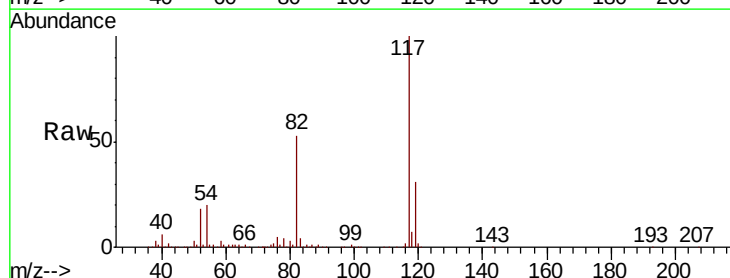
Tgt Ion: 117 Resp: 372797

Ion Ratio Lower Upper

117 100

82 53.1 42.6 63.8

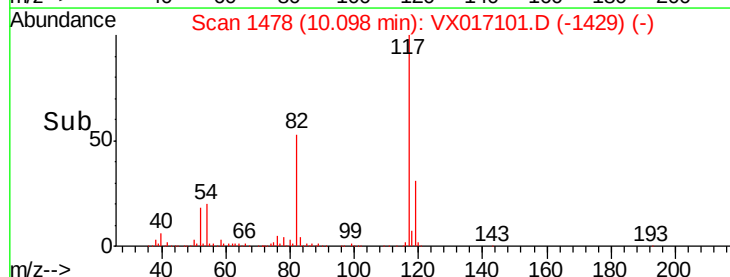
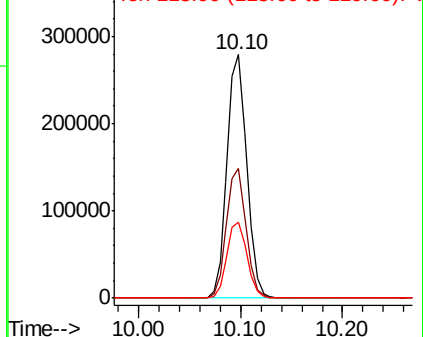
119 31.3 25.4 38.2

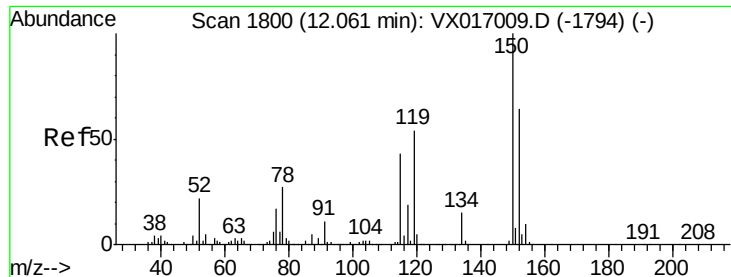


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX017101.D

Acq: 01 Jul 2020 16:23

Instrument :

MSVOA_X

ClientSampleId :

1308

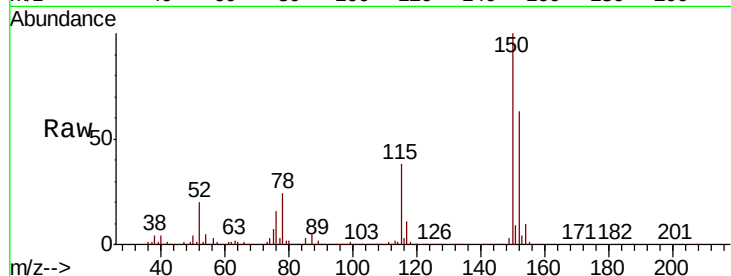
Tot Ion:152 Resp: 205980

Ion Ratio Lower Upper

152 100

115 58.7 40.9 122.7

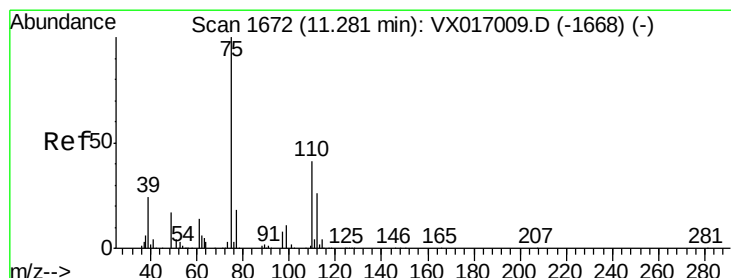
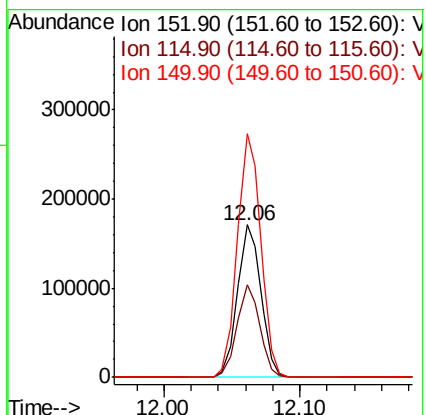
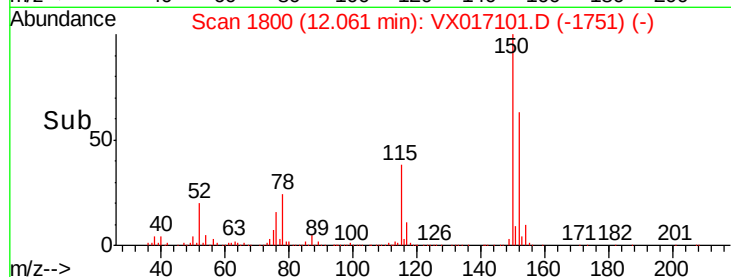
150 159.3 0.0 351.6



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: 23.467 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017101.D

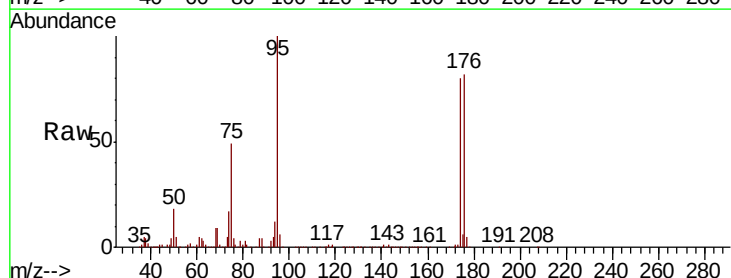
Acq: 01 Jul 2020 16:23

Tgt Ion: 75 Resp: 95051

Ion Ratio Lower Upper

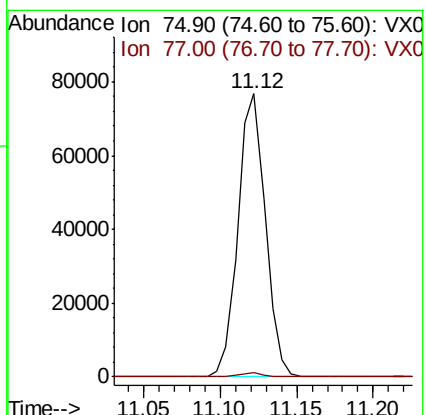
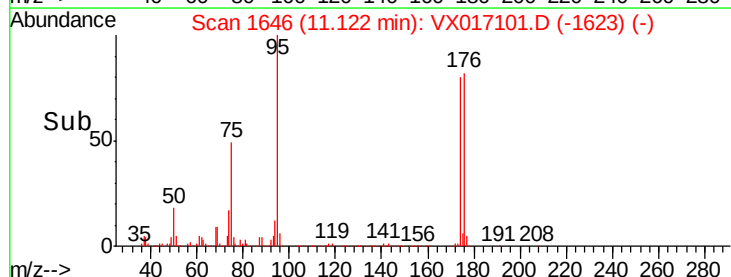
75 100

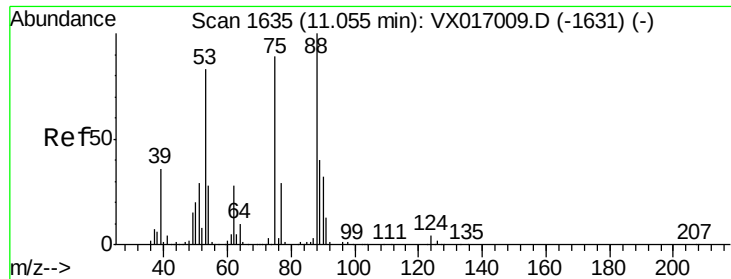
77 1.3 20.2 60.6#



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: 60.770 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017101.D

Acq: 01 Jul 2020 16:23

Instrument :

MSVOA_X

ClientSampleId :

1308

Tot Ion: 75 Resp: 95051

Ion Ratio Lower Upper

75 100

53 0.2 72.4 108.6#

89 0.1 37.0 55.4#

