

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031720\
 Data File : VX015318.D
 Acq On : 17 Mar 2020 12:37
 Operator : JC/SP
 Sample : L1903-22DL 10X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP04-20200310DL

Quant Time: Mar 18 01:19:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 04 14:19:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	283444	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	436425	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	440323	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	235131	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.05	65	162151	48.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.44%	
35) Dibromofluoromethane	5.49	113	138755	50.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.80%	
50) Toluene-d8	8.71	98	509936	48.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.38%	
62) 4-Bromofluorobenzene	11.14	95	208696	55.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.74%	

Target Compounds

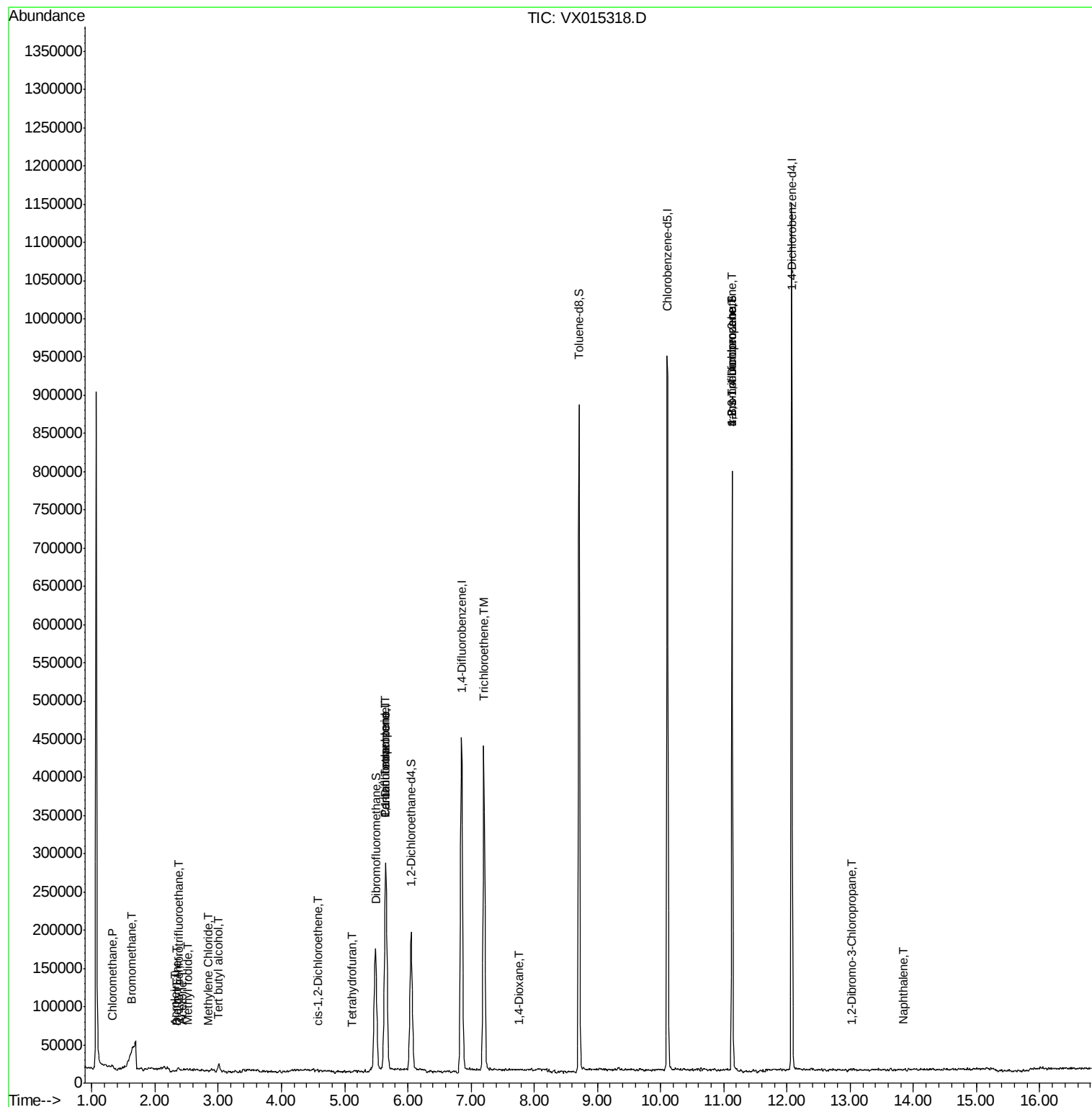
						Qvalue
3) Chloromethane	1.31	50	726	0.206	ug/l	94
5) Bromomethane	1.63	94	918	0.419	ug/l #	70
8) Diethyl Ether	2.33	74	394	0.205	ug/l	83
9) 1,1,2-Trichlorotrifluoroet	2.37	101	1081	0.405	ug/l #	67
10) Methyl Iodide	2.52	142	1151	0.382	ug/l #	48
11) Tert butyl alcohol	3.01	59	6744	11.559	ug/l #	79
13) Acrolein	2.31	56	222	0.405	ug/l #	15
16) Acetone	2.44	43	743	0.546	ug/l	100
20) Methylene Chloride	2.84	84	638	0.200	ug/l #	39
27) cis-1,2-Dichloroethene	4.59	96	727	0.220	ug/l	58
29) Tetrahydrofuran	5.12	42	569	0.443	ug/l #	67
36) 1,1-Dichloropropene	5.65	75	19062	4.725	ug/l #	54
38) Carbon Tetrachloride	5.65	117	24427	6.414	ug/l #	16
44) Trichloroethene	7.20	130	169085	50.722	ug/l	93
49) 1,4-Dioxane	7.76	88	207	2.857	ug/l #	5
76) 1,2,3-Trichloropropane	11.13	75	99137	21.137	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	99137	59.988	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.03	75	243	0.242	ug/l #	38
95) Naphthalene	13.83	128	768	1.468	ug/l #	76

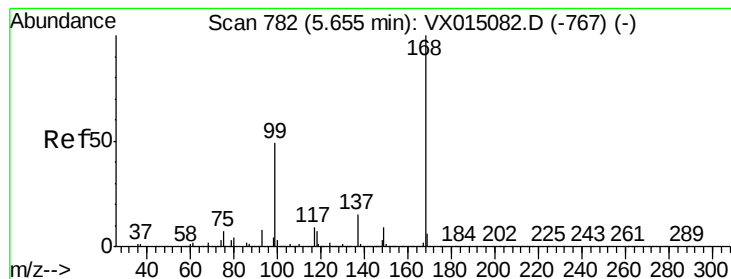
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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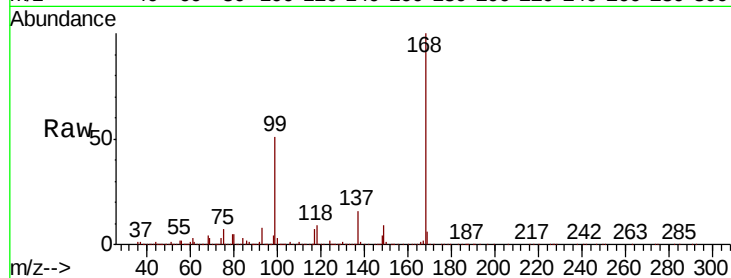


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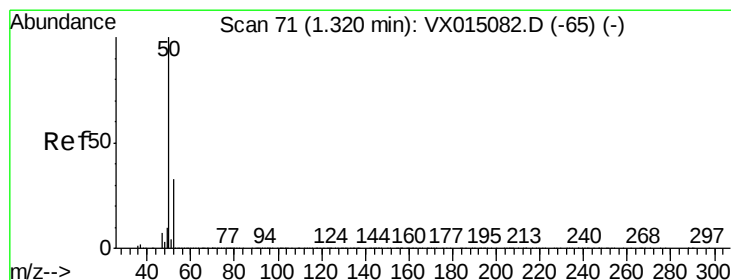
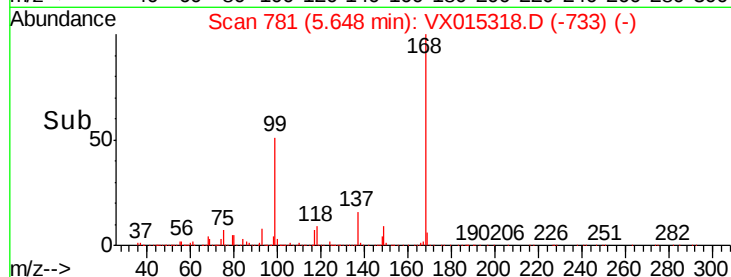
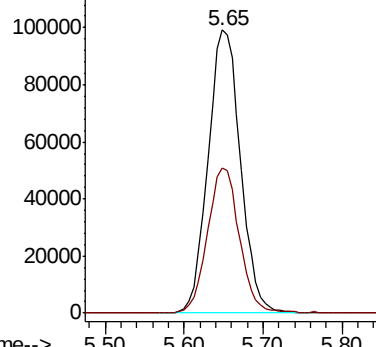
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.01 min
Lab File: VX015318.D
Acq: 17 Mar 2020 12:37

Instrument :
MSVOA_X
ClientSampleId :
DUP04-20200310DL

Tot Ion:168 Resp: 283444
Ion Ratio Lower Upper
168 100
99 51.0 39.4 59.2



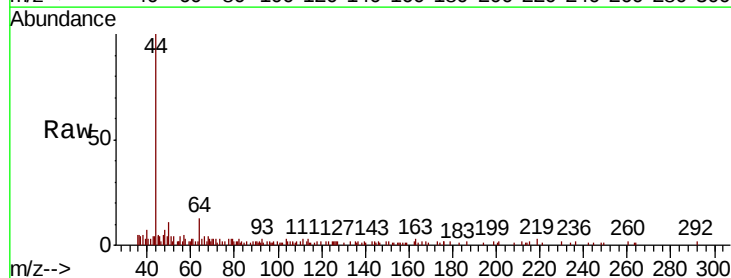
Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VX0



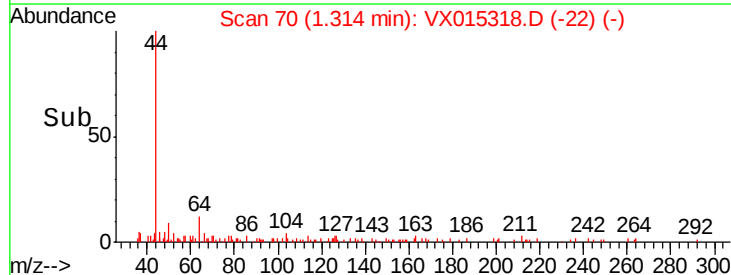
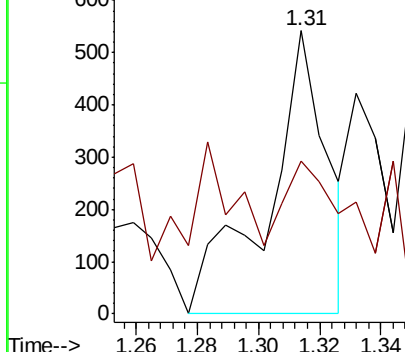
#3

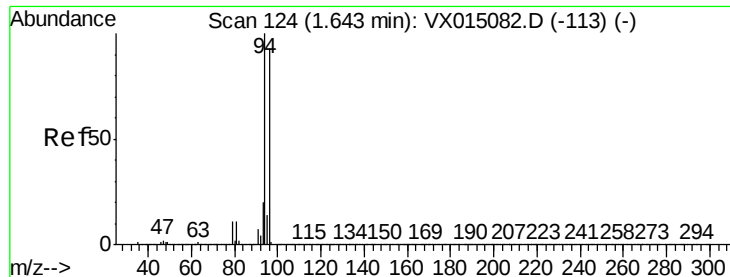
Chloromethane
Concen: 0.206 ug/l
RT: 1.31 min Scan# 70
Delta R.T. -0.01 min
Lab File: VX015318.D
Acq: 17 Mar 2020 12:37

Tgt Ion: 50 Resp: 726
Ion Ratio Lower Upper
50 100
52 29.5 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0
Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.419 ug/l

RT: 1.63 min Scan# 122

Delta R.T. -0.01 min

Lab File: VX015318.D

Acq: 17 Mar 2020 12:37

Instrument :

MSVOA_X

ClientSampleId :

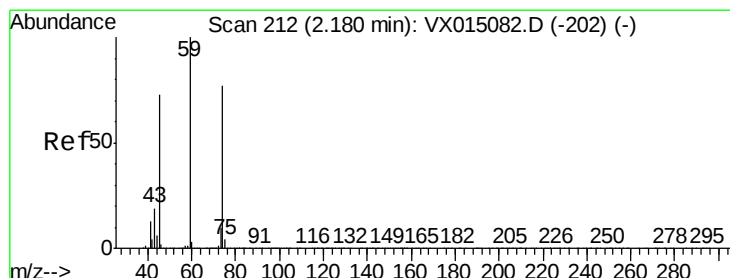
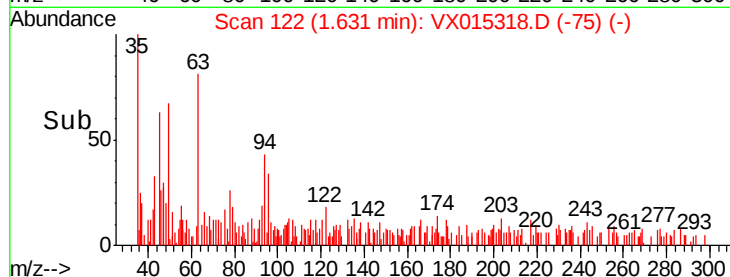
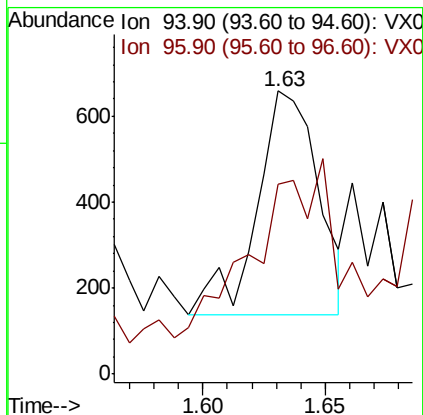
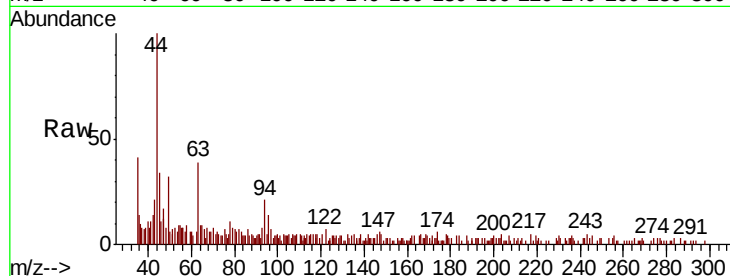
DUP04-20200310DL

Tot Ion: 94 Resp: 918

Ion Ratio Lower Upper

94 100

96 64.3 74.6 111.8#



#8

Diethyl Ether

Concen: 0.205 ug/l

RT: 2.33 min Scan# 237

Delta R.T. 0.15 min

Lab File: VX015318.D

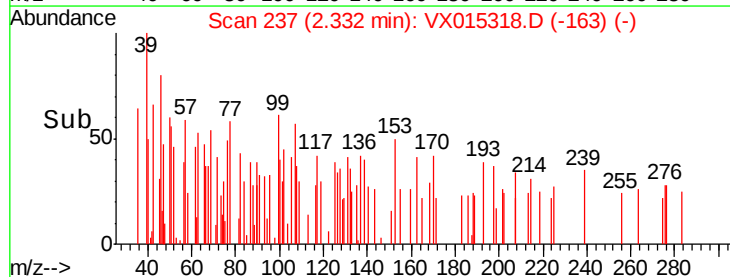
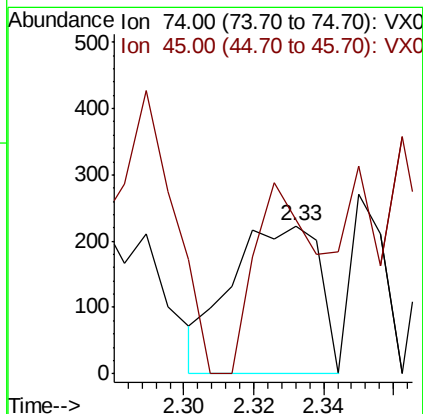
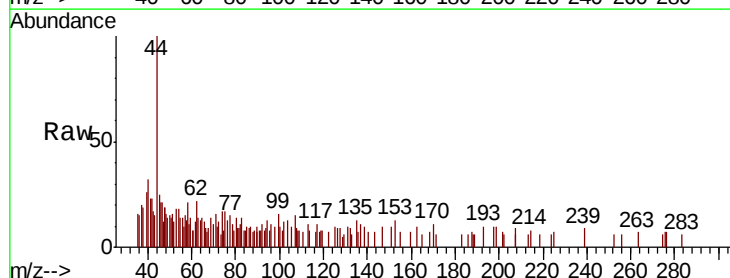
Acq: 17 Mar 2020 12:37

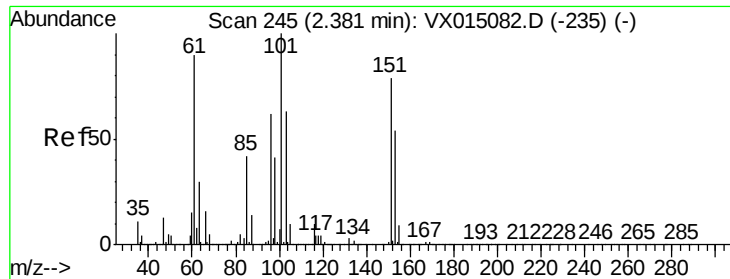
Tgt Ion: 74 Resp: 394

Ion Ratio Lower Upper

74 100

45 81.5 49.2 147.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.405 ug/l

RT: 2.37 min Scan# 243

Delta R.T. -0.01 min

Lab File: VX015318.D

Acq: 17 Mar 2020 12:37

Instrument :

MSVOA_X

ClientSampleId :

DUP04-20200310DL

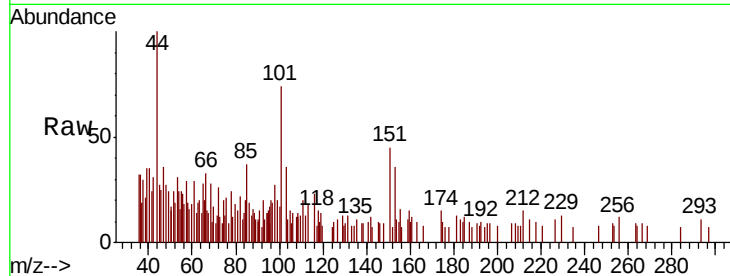
Tot Ion:101 Resp: 1081

Ion Ratio Lower Upper

101 100

85 90.0 33.7 50.5#

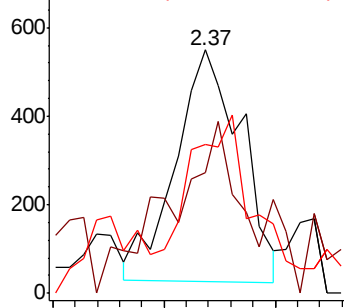
151 70.4 64.0 96.0



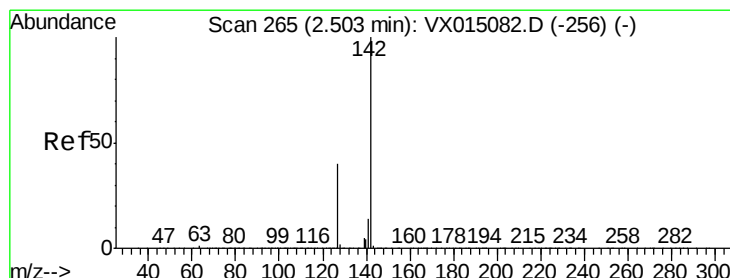
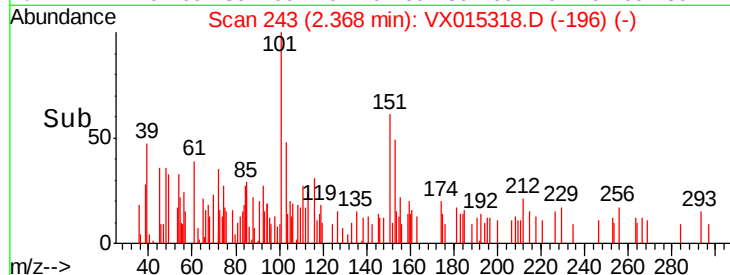
Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



Time-->



#10

Methyl Iodide

Concen: 0.382 ug/l

RT: 2.52 min Scan# 268

Delta R.T. 0.02 min

Lab File: VX015318.D

Acq: 17 Mar 2020 12:37

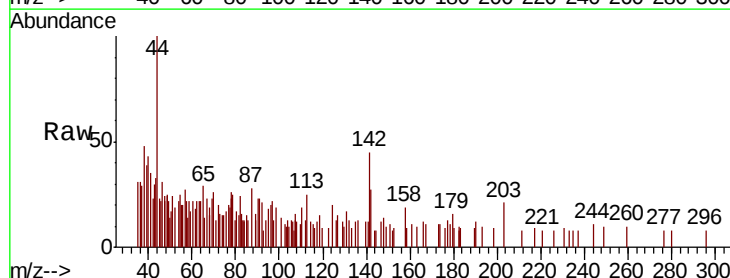
Tgt Ion:142 Resp: 1151

Ion Ratio Lower Upper

142 100

127 0.0 31.7 47.5#

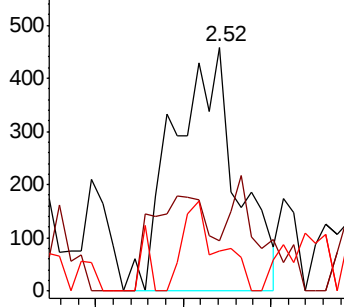
141 20.9 11.3 16.9#



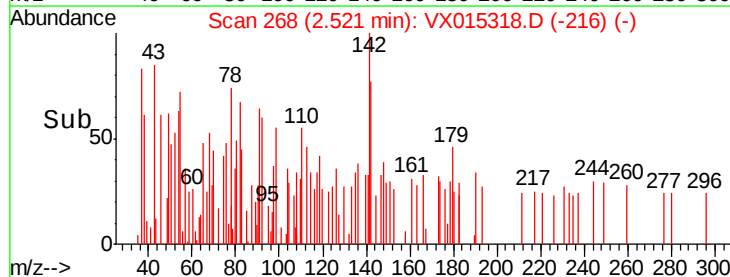
Abundance Ion 141.80 (141.50 to 142.50): V

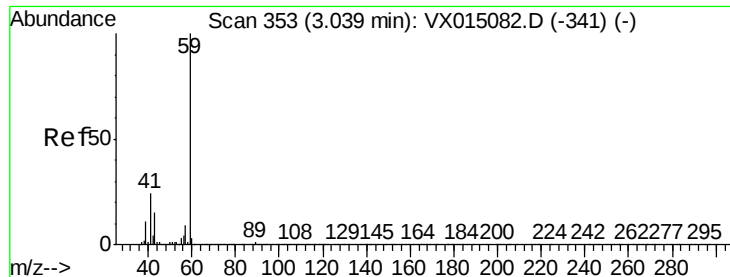
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->



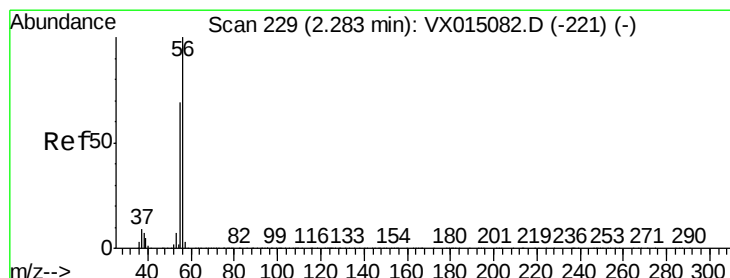
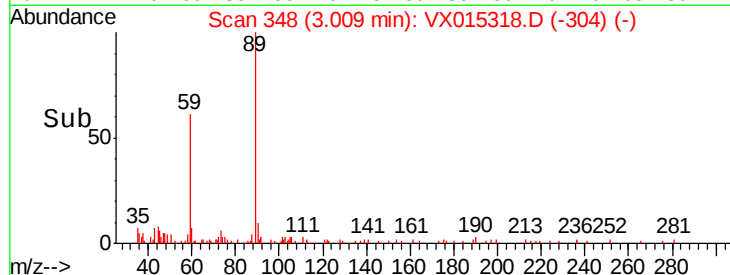
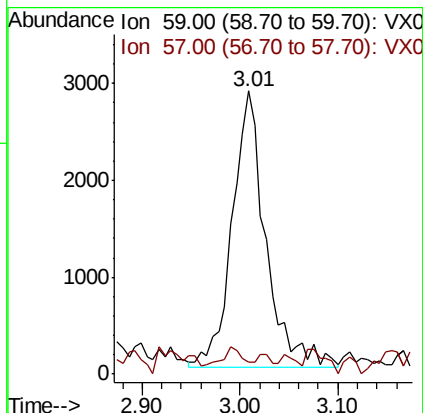
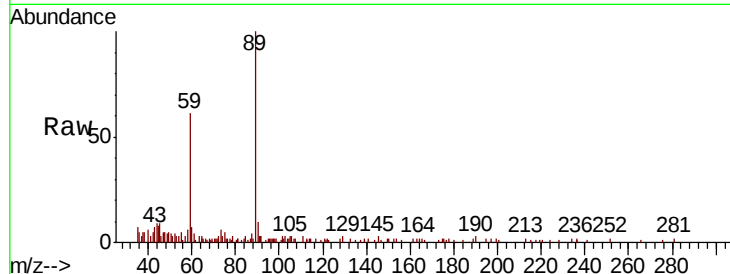


#11

Tert butyl alcohol
 Concen: 11.559 ug/l
 RT: 3.01 min Scan# 348
 Delta R.T. -0.03 min
 Lab File: VX015318.D
 Acq: 17 Mar 2020 12:37

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP04-20200310DL

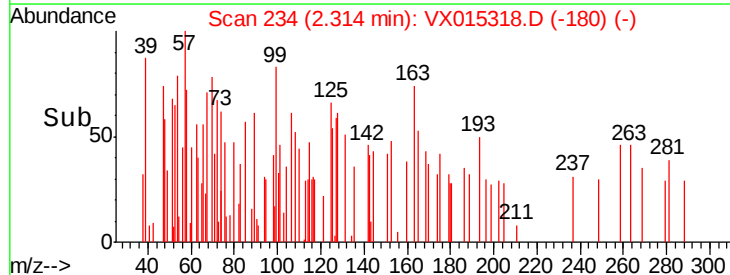
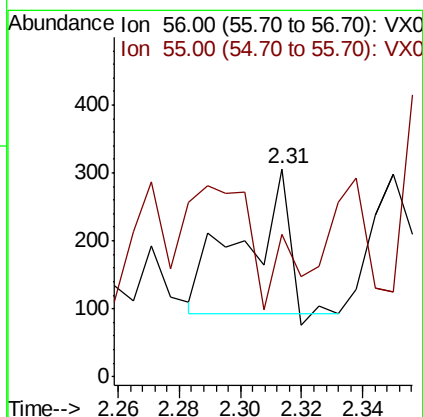
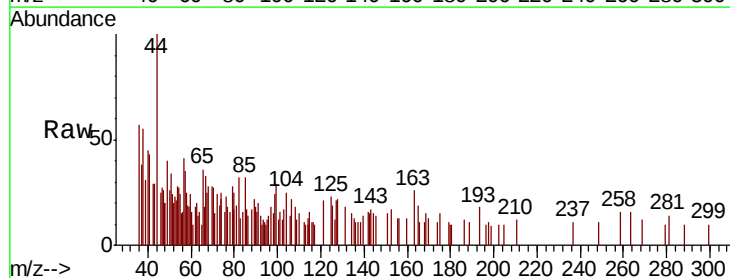
Tot Ion: 59 Resp: 6744
 Ion Ratio Lower Upper
 59 100
 57 2.3 8.2 12.4#

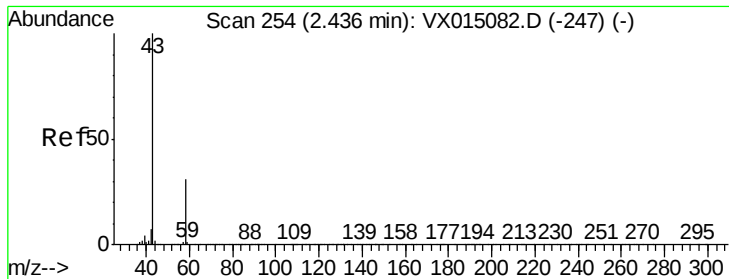


#13

Acrolein
 Concen: 0.405 ug/l
 RT: 2.31 min Scan# 234
 Delta R.T. 0.03 min
 Lab File: VX015318.D
 Acq: 17 Mar 2020 12:37

Tgt Ion: 56 Resp: 222
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.4 83.0#

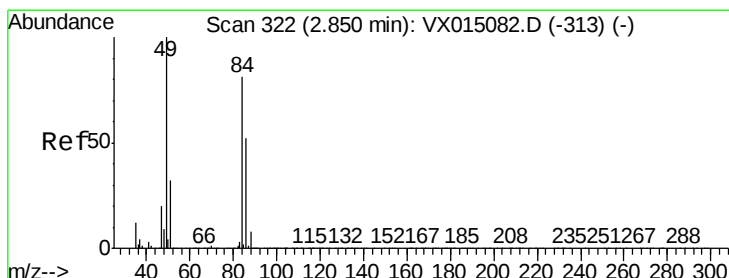
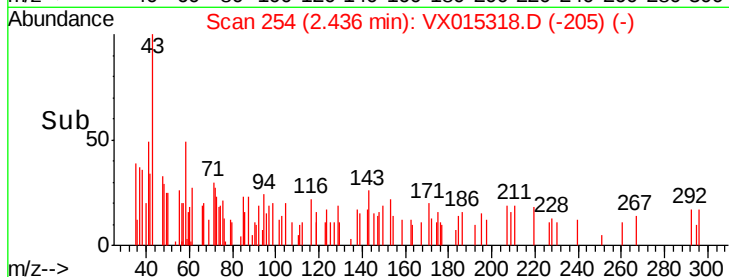
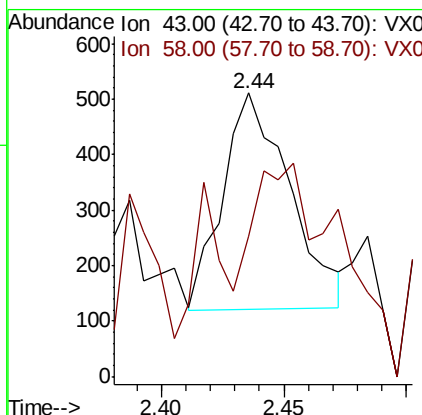
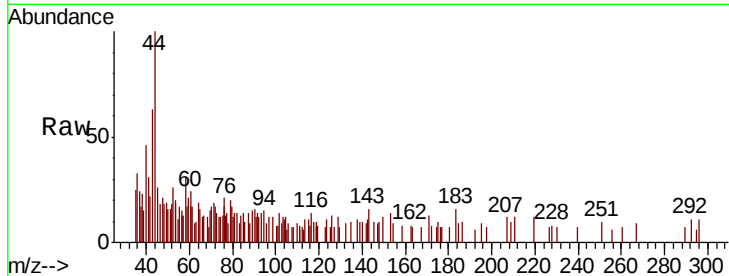




#16
Acetone
Concen: 0.546 ug/l
RT: 2.44 min Scan# 254
Delta R.T. -0.00 min
Lab File: VX015318.D
Acq: 17 Mar 2020 12:37

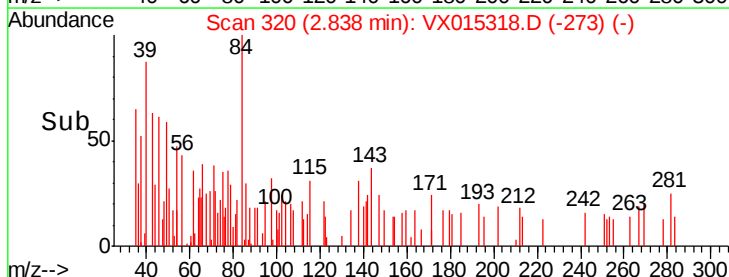
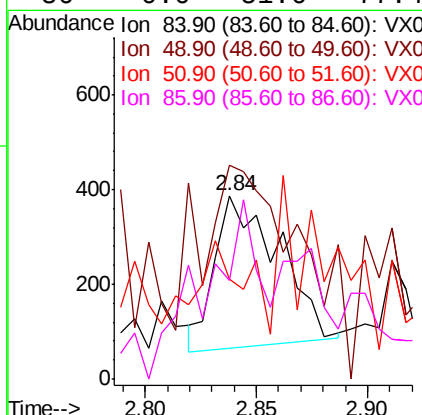
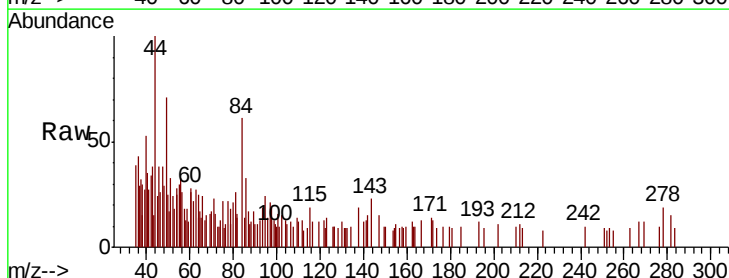
Instrument :
MSVOA_X
ClientSampleId :
DUP04-20200310DL

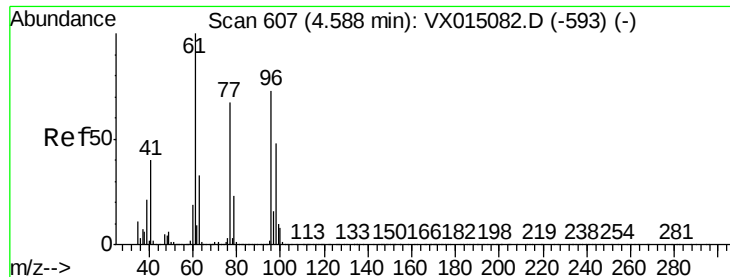
Tot Ion: 43 Resp: 743
Ion Ratio Lower Upper
43 100
58 31.3 24.8 37.2



#20
Methylene Chloride
Concen: 0.200 ug/l
RT: 2.84 min Scan# 320
Delta R.T. -0.01 min
Lab File: VX015318.D
Acq: 17 Mar 2020 12:37

Tgt Ion: 84 Resp: 638
Ion Ratio Lower Upper
84 100
49 57.2 99.4 149.2#
51 19.0 31.5 47.3#
86 0.0 51.6 77.4#



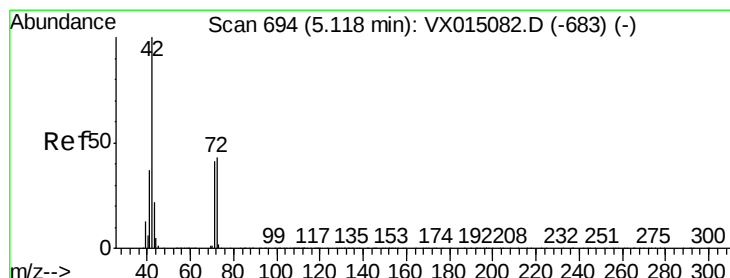
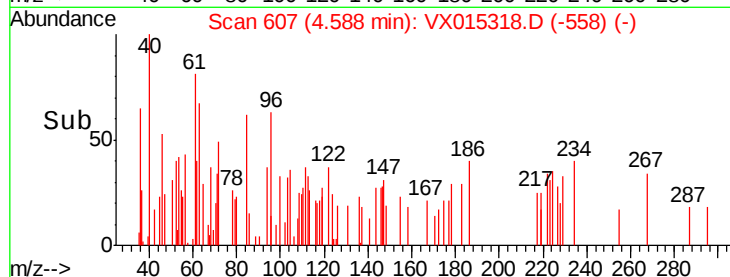
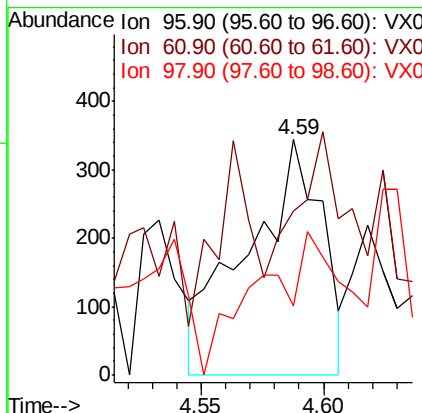
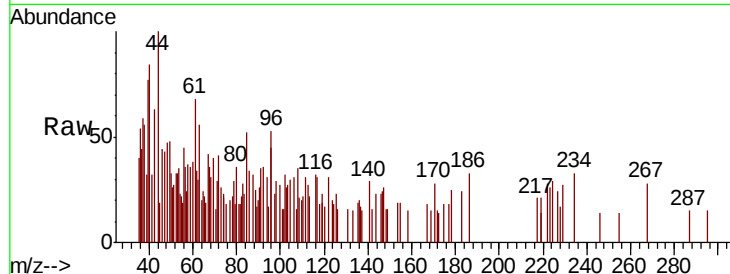


#27

cis-1,2-Dichloroethene
Concen: 0.220 ug/l
RT: 4.59 min Scan# 607
Delta R.T. -0.00 min
Lab File: VX015318.D
Acq: 17 Mar 2020 12:37

Instrument :
MSVOA_X
ClientSampleId :
DUP04-20200310DL

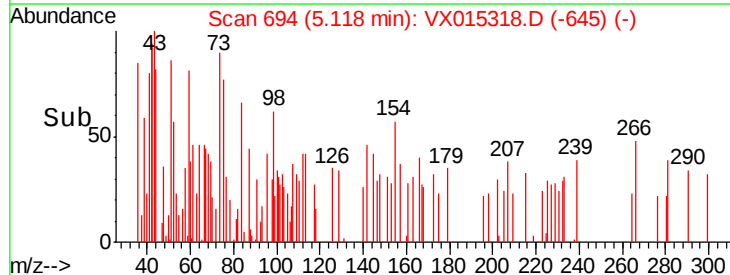
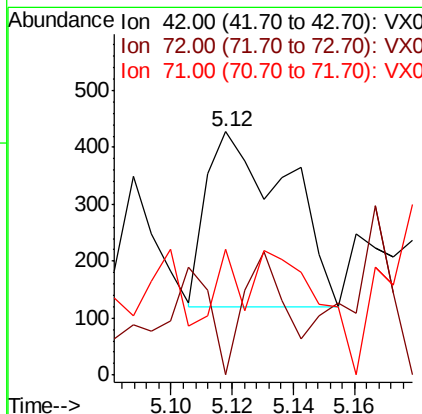
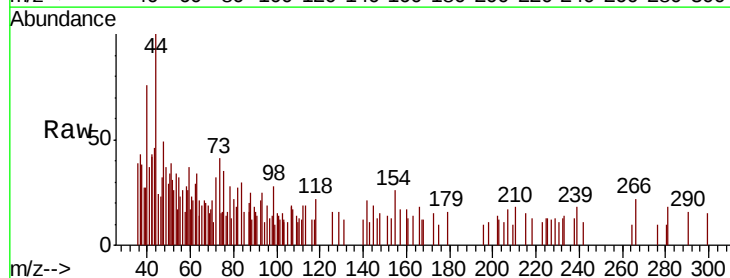
Tot Ion: 96 Resp: 727
Ion Ratio Lower Upper
96 100
61 74.3 0.0 286.8
98 72.2 0.0 128.4

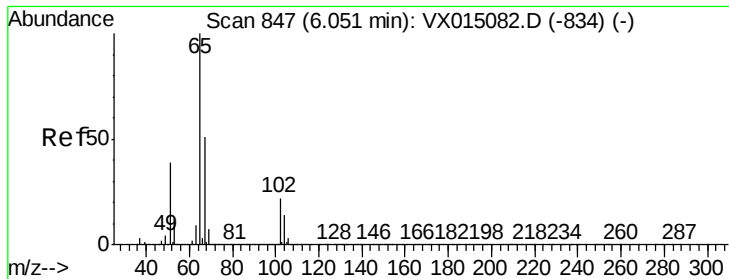


#29

Tetrahydrofuran
Concen: 0.443 ug/l
RT: 5.12 min Scan# 694
Delta R.T. -0.00 min
Lab File: VX015318.D
Acq: 17 Mar 2020 12:37

Tgt Ion: 42 Resp: 569
Ion Ratio Lower Upper
42 100
72 36.2 36.4 54.6#
71 75.7 33.3 49.9#

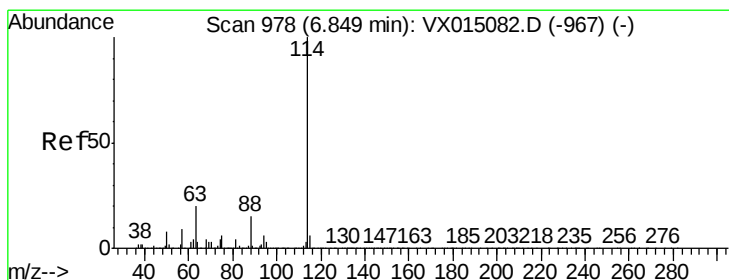
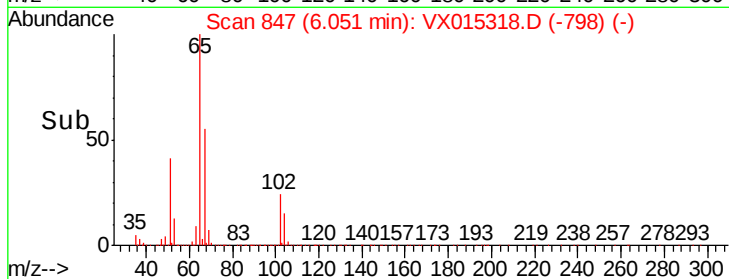
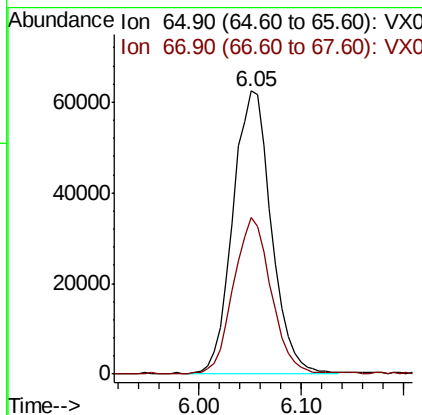
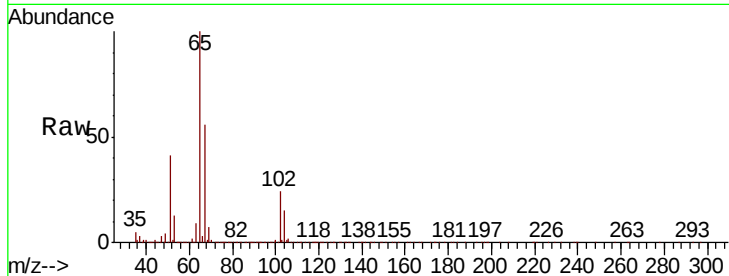




#33
 1,2-Dichloroethane-d4
 Concen: 48.220 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: VX015318.D
 Acq: 17 Mar 2020 12:37

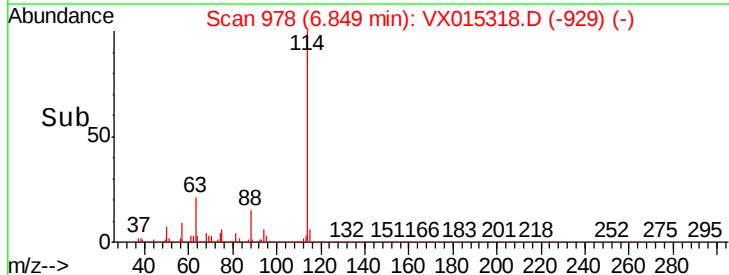
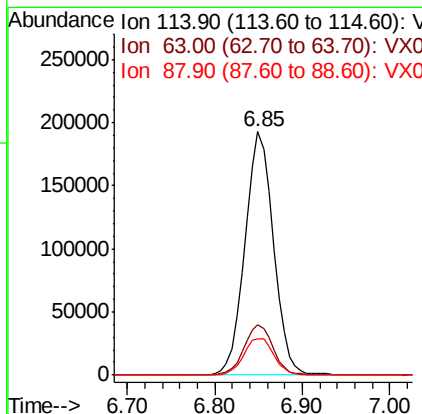
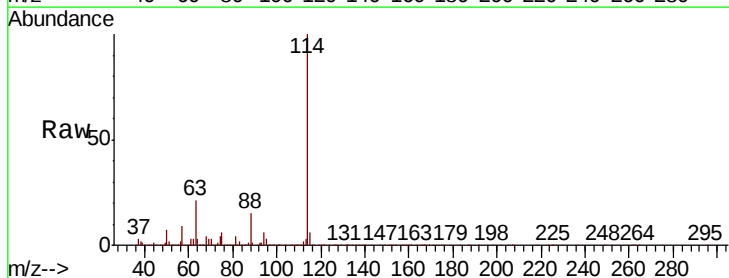
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP04-20200310DL

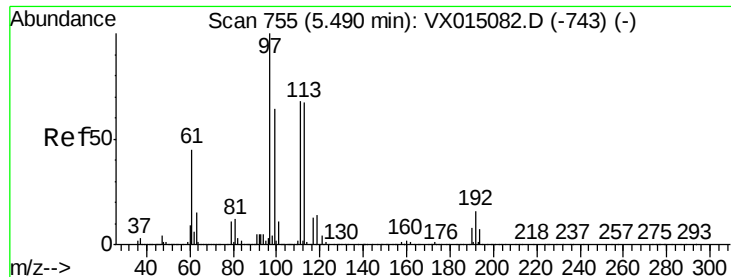
Tot Ion: 65 Resp: 162151
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX015318.D
 Acq: 17 Mar 2020 12:37

Tgt Ion: 114 Resp: 436425
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 40.0
 88 15.1 0.0 30.6

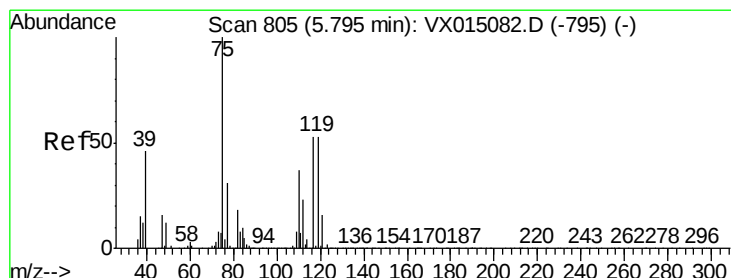
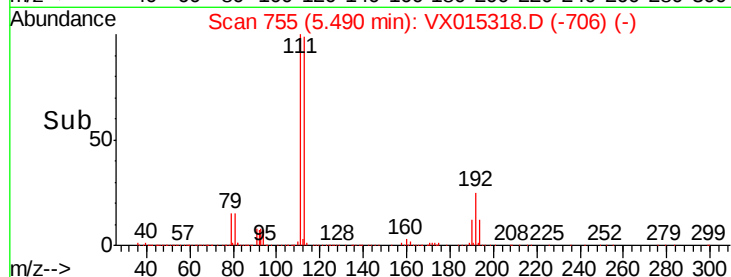
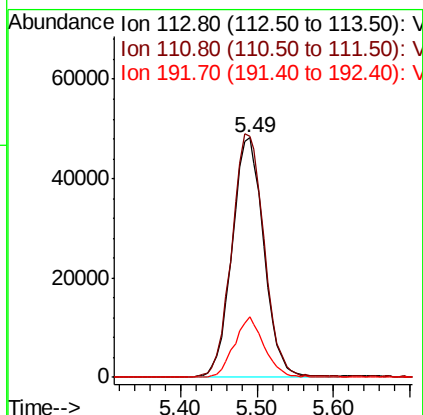
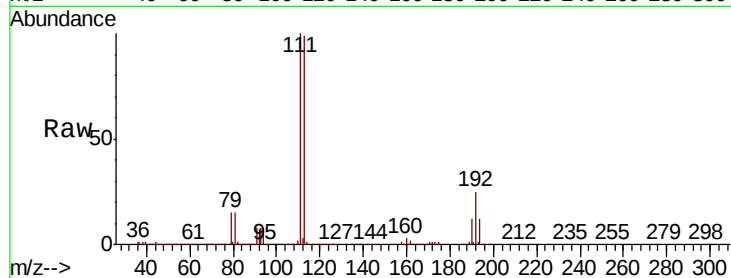




#35
Dibromofluoromethane
Concen: 50.396 ug/l
RT: 5.49 min Scan# 755
Delta R.T. -0.00 min
Lab File: VX015318.D
Acq: 17 Mar 2020 12:37

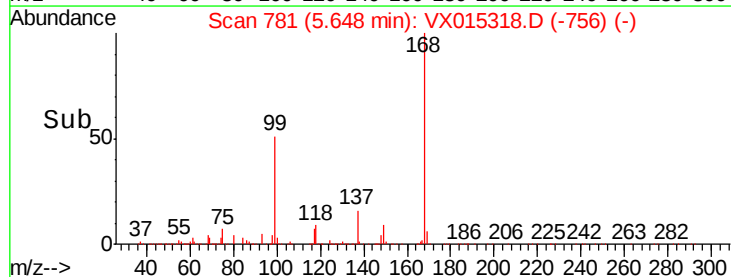
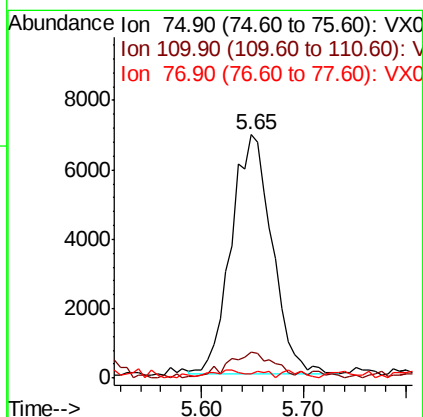
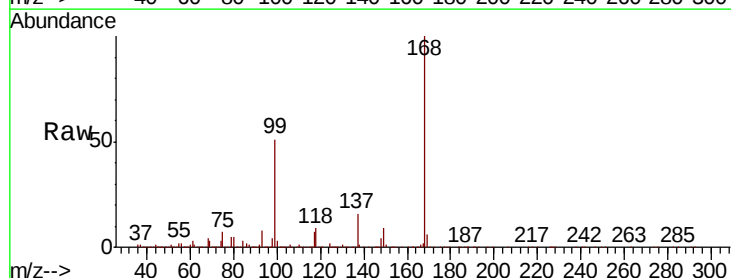
Instrument :
MSVOA_X
ClientSampleId :
DUP04-20200310DL

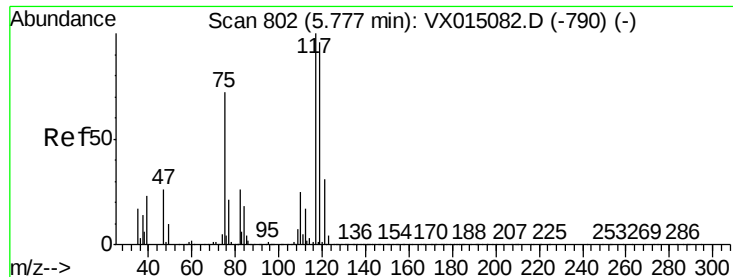
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.6	123.8
192	23.7	18.6	28.0



#36
1,1-Dichloropropene
Concen: 4.725 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.15 min
Lab File: VX015318.D
Acq: 17 Mar 2020 12:37

Tgt Ion	Ratio	Lower	Upper
75	100		
110	12.5	17.9	53.8#
77	1.3	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 6.414 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX015318.D

Acq: 17 Mar 2020 12:37

Instrument :

MSVOA_X

ClientSampleId :

DUP04-20200310DL

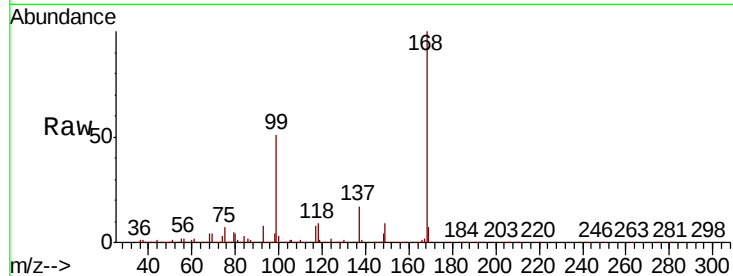
Tot Ion:117 Resp: 24427

Ion Ratio Lower Upper

117 100

119 5.2 76.9 115.3#

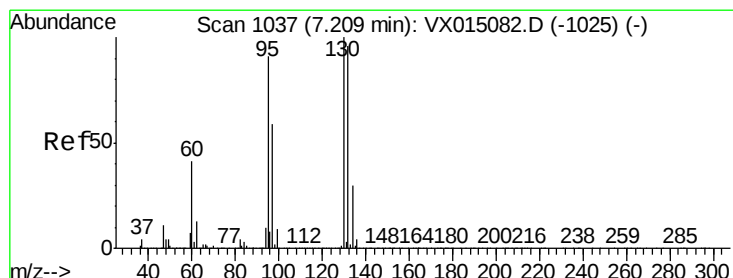
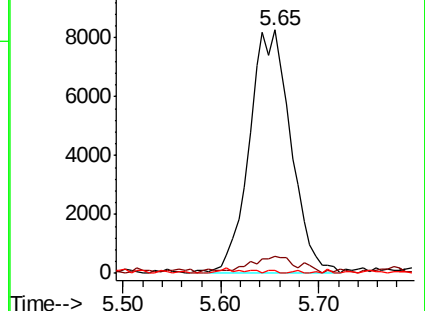
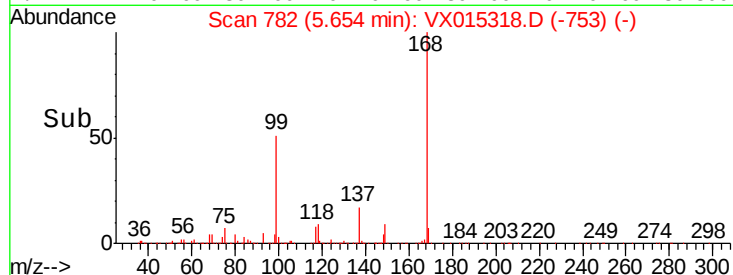
121 1.1 24.6 37.0#



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: 50.722 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.01 min

Lab File: VX015318.D

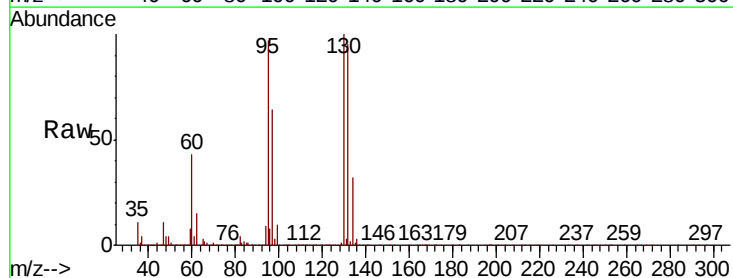
Acq: 17 Mar 2020 12:37

Tgt Ion:130 Resp: 169085

Ion Ratio Lower Upper

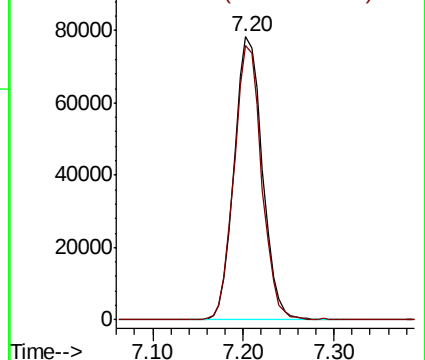
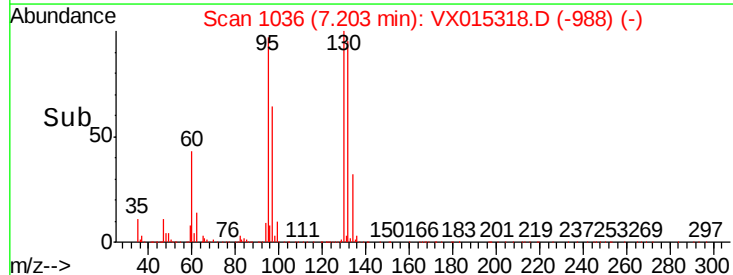
130 100

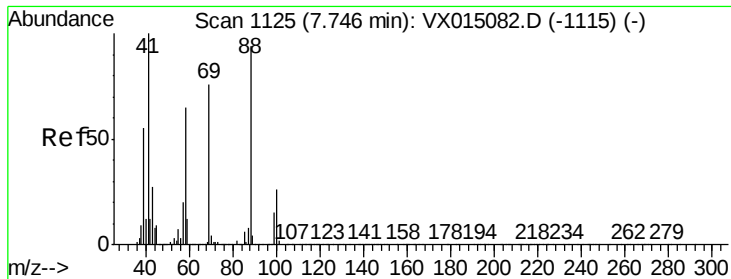
95 97.0 0.0 181.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

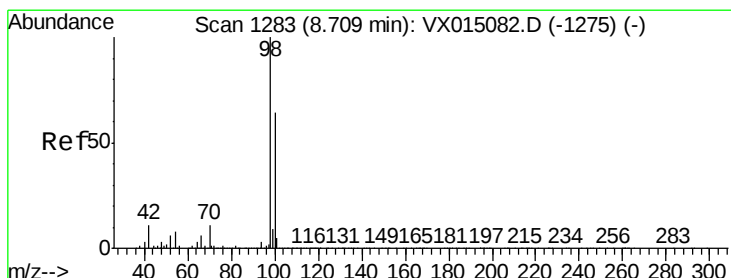
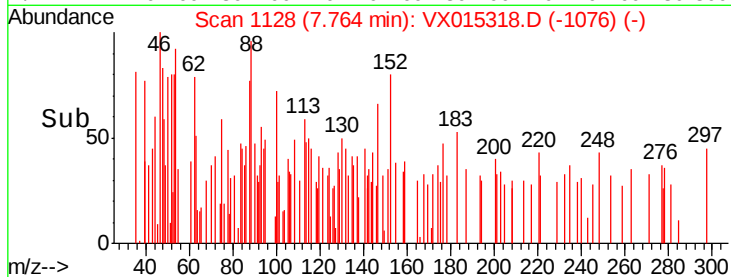
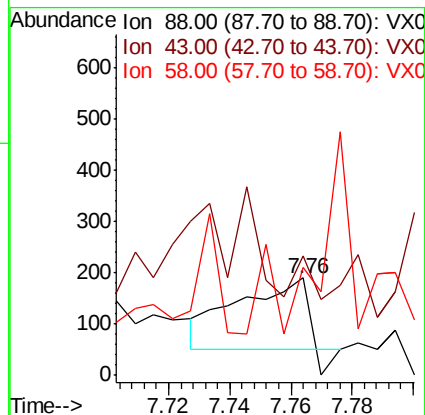
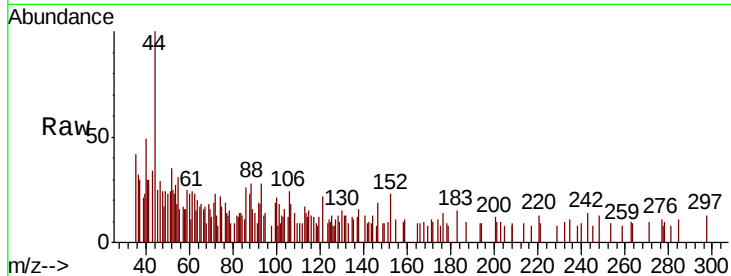




#49
1,4-Dioxane
Concen: 2.857 ug/l
RT: 7.76 min Scan# 1128
Delta R.T. 0.02 min
Lab File: VX015318.D
Acq: 17 Mar 2020 12:37

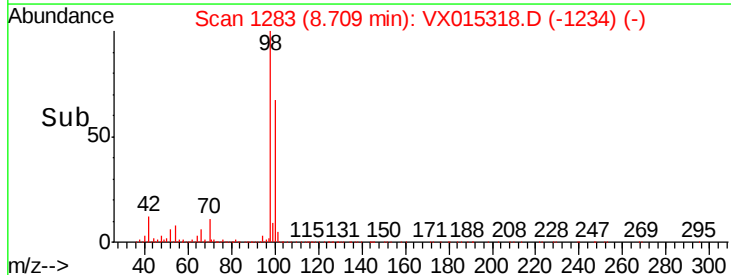
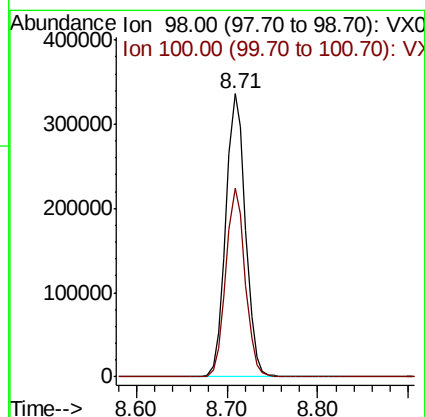
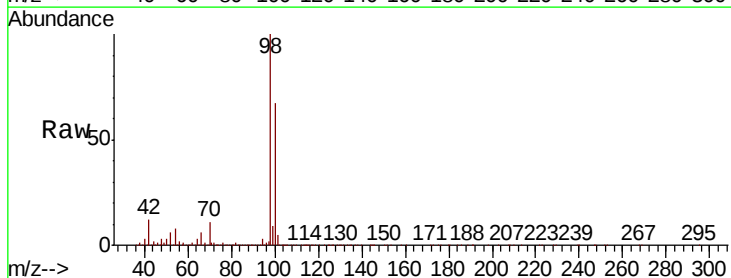
Instrument :
MSVOA_X
ClientSampleId :
DUP04-20200310DL

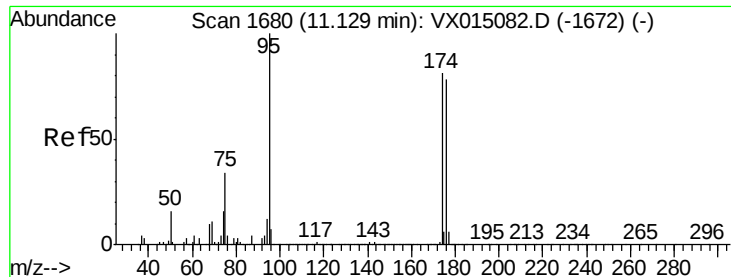
Tot Ion: 88 Resp: 207
Ion Ratio Lower Upper
88 100
43 0.0 27.0 40.4#
58 161.4 55.6 83.4#



#50
Toluene-d8
Concen: 48.690 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX015318.D
Acq: 17 Mar 2020 12:37

Tgt Ion: 98 Resp: 509936
Ion Ratio Lower Upper
98 100
100 65.2 52.4 78.6





#62

4-Bromofluorobenzene

Concen: 55.866 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX015318.D

Acq: 17 Mar 2020 12:37

Instrument :

MSVOA_X

ClientSampleId :

DUP04-20200310DL

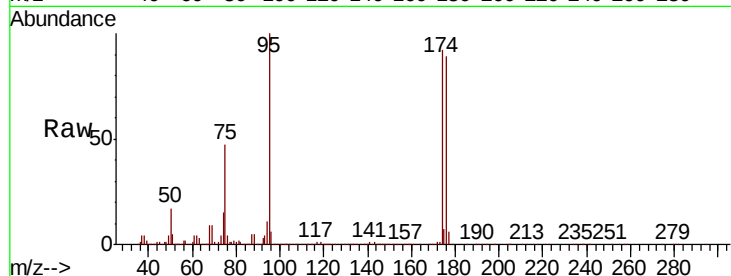
Tot Ion: 95 Resp: 208696

Ion Ratio Lower Upper

95 100

174 89.1 0.0 177.6

176 87.0 0.0 170.2



Abundance Ion 94.90 (94.60 to 95.60): VX015082.D (-1672) (-)

Ion 173.80 (173.50 to 174.50): VX015082.D (-1672) (-)

Ion 175.80 (175.50 to 176.50): VX015082.D (-1672) (-)

11.14

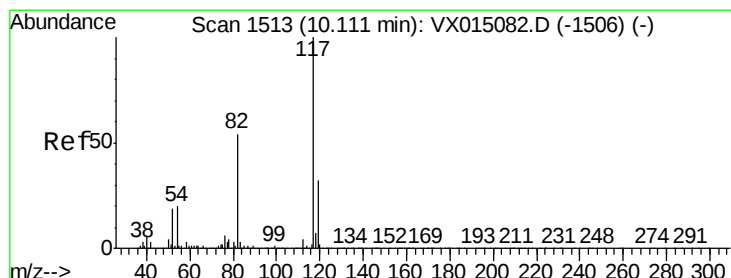
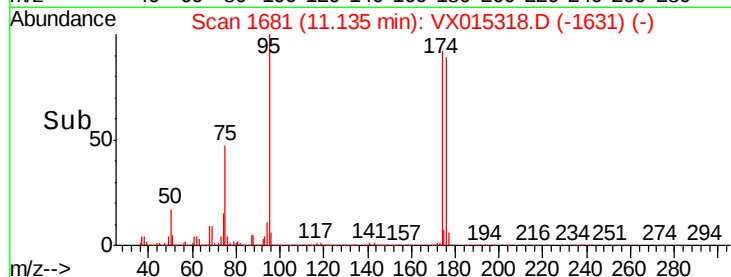
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX015318.D

Acq: 17 Mar 2020 12:37

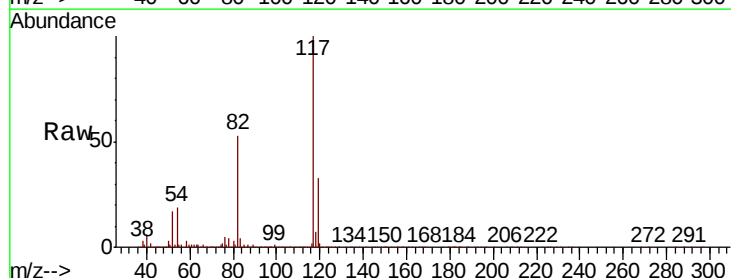
Tgt Ion: 117 Resp: 440323

Ion Ratio Lower Upper

117 100

82 53.2 43.3 64.9

119 32.8 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): VX015082.D (-1506) (-)

Ion 82.00 (81.70 to 82.70): VX015082.D (-1506) (-)

Ion 118.90 (118.60 to 119.60): VX015082.D (-1506) (-)

10.11

400000

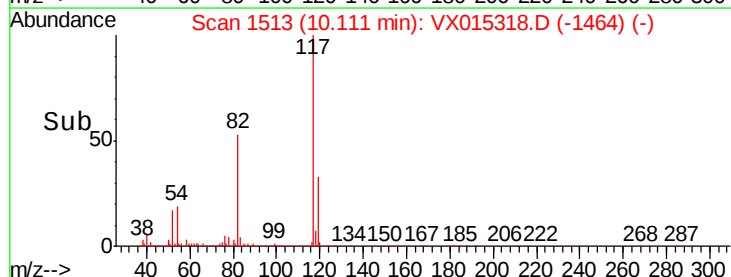
300000

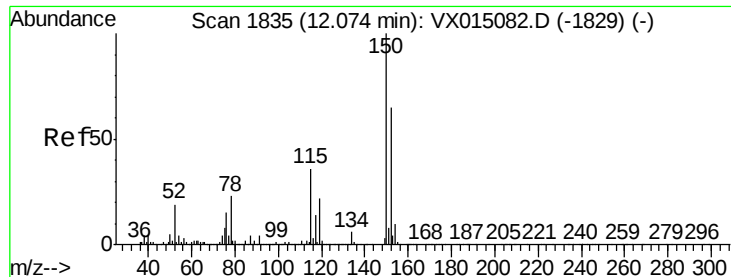
200000

100000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX015318.D

Acq: 17 Mar 2020 12:37

Instrument :

MSVOA_X

ClientSampleId :

DUP04-20200310DL

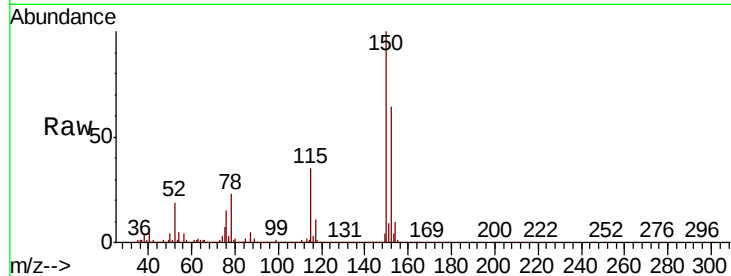
Tot Ion:152 Resp: 235131

Ion Ratio Lower Upper

152 100

115 55.4 38.2 114.6

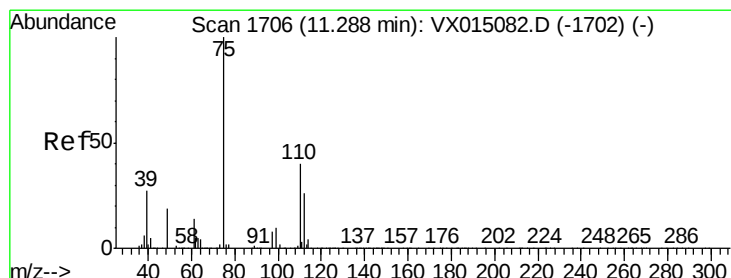
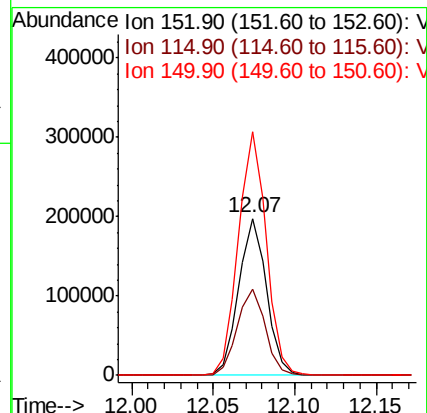
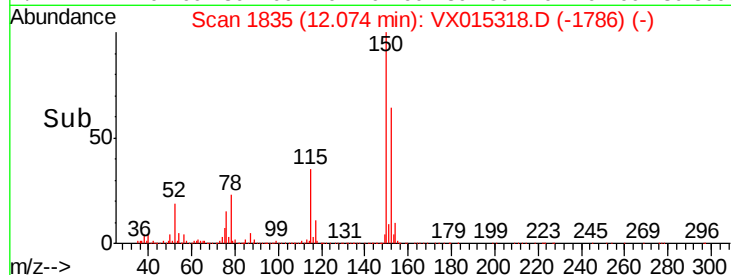
150 155.8 0.0 343.8



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: 21.137 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX015318.D

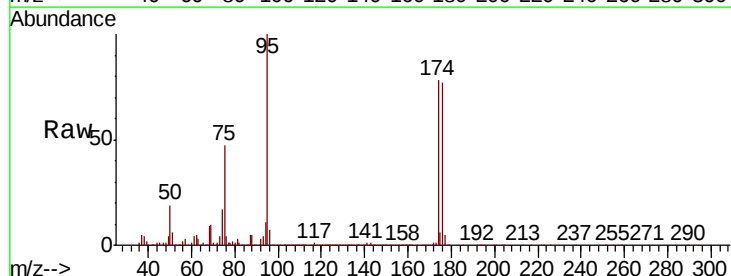
Acq: 17 Mar 2020 12:37

Tgt Ion: 75 Resp: 99137

Ion Ratio Lower Upper

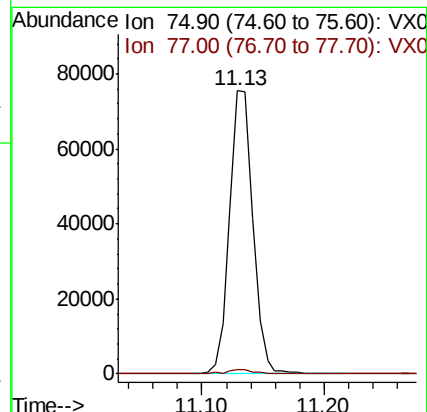
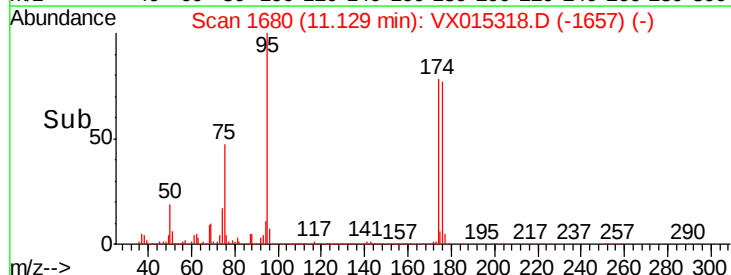
75 100

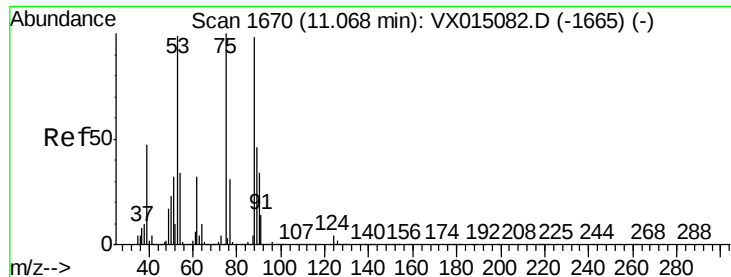
77 2.1 22.6 67.8#



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: 59.988 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015318.D

Acq: 17 Mar 2020 12:37

Instrument :

MSVOA_X

ClientSampleId :

DUP04-20200310DL

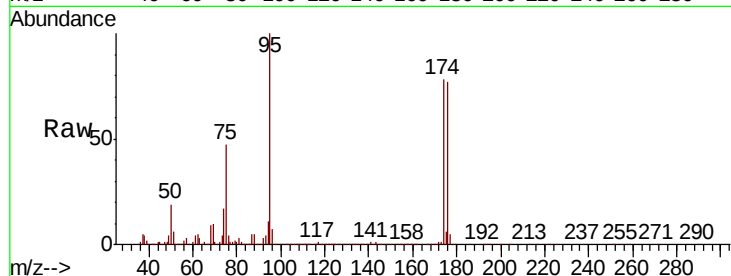
Tot Ion: 75 Resp: 99137

Ion Ratio Lower Upper

75 100

53 0.2 77.9 116.9#

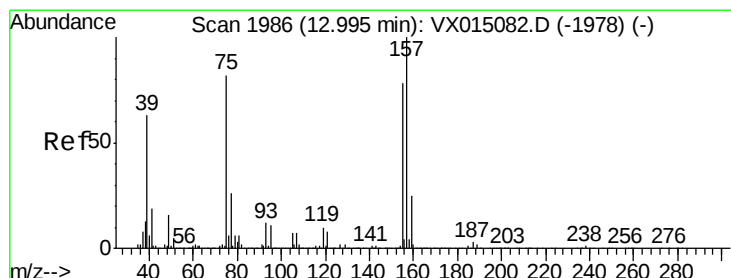
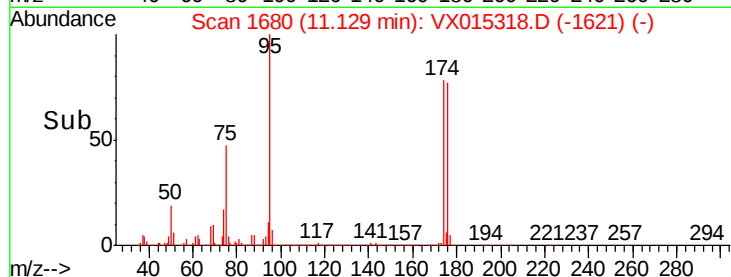
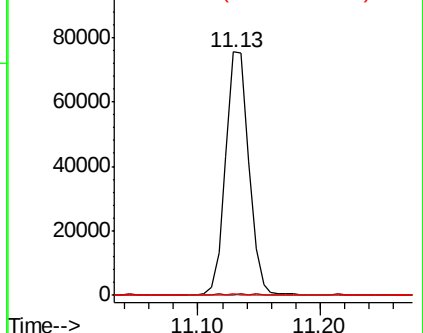
89 0.4 36.2 54.2#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.242 ug/l

RT: 13.03 min Scan# 1992

Delta R.T. 0.04 min

Lab File: VX015318.D

Acq: 17 Mar 2020 12:37

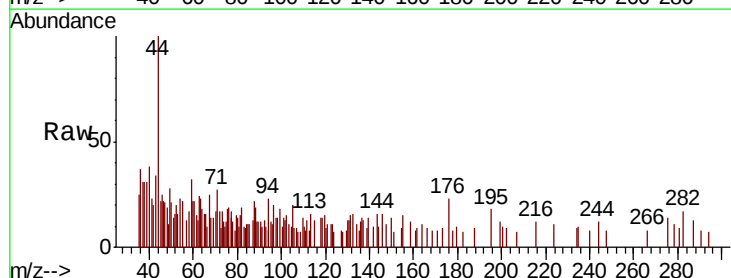
Tgt Ion: 75 Resp: 243

Ion Ratio Lower Upper

75 100

155 56.4 46.6 139.7

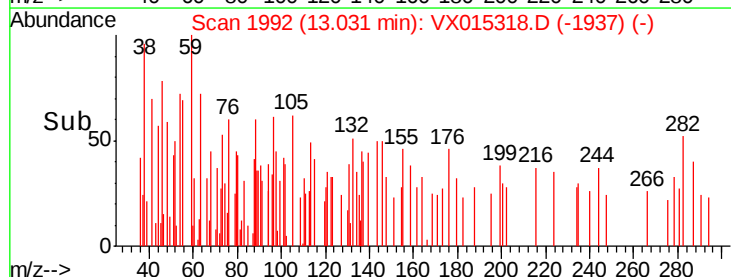
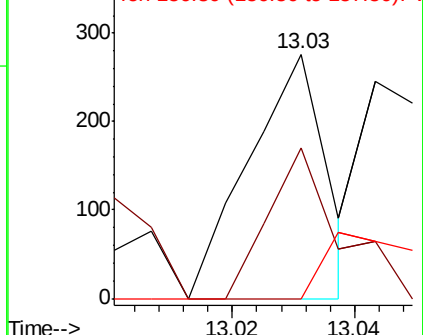
157 29.2 59.2 177.5#

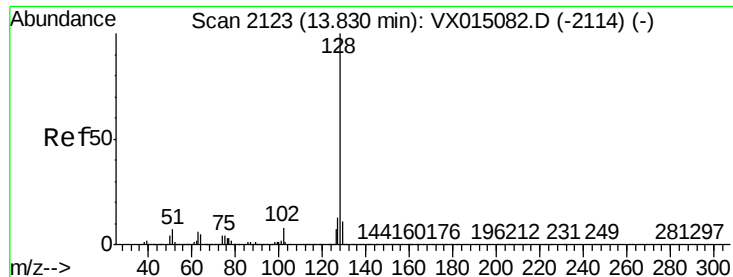


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 1.468 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX015318.D

Acq: 17 Mar 2020 12:37

Instrument :

MSVOA_X

ClientSampleId :

DUP04-20200310DL

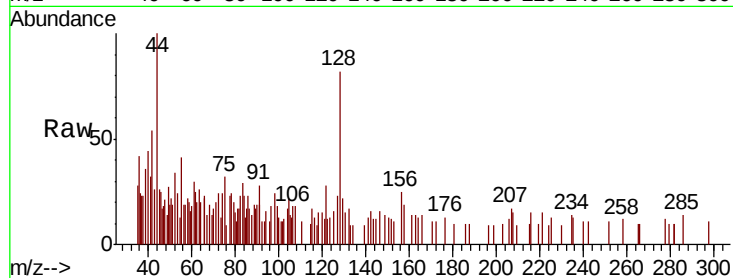
Tot Ion:128 Resp: 768

Ion Ratio Lower Upper

128 100

127 17.7 10.3 15.5#

129 25.0 8.6 13.0#



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

