

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX030920\
 Data File : VX015151.D
 Acq On : 09 Mar 2020 18:22
 Operator : JC/SP
 Sample : L1842-29
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE125D3-20200306

Quant Time: Mar 10 11:23:15 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	335479	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	551296	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	535571	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	275060	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	206367	51.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.70%	
35) Dibromofluoromethane	5.49	113	173569	49.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.82%	
50) Toluene-d8	8.71	98	670158	50.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.32%	
62) 4-Bromofluorobenzene	11.14	95	244676	51.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.70%	

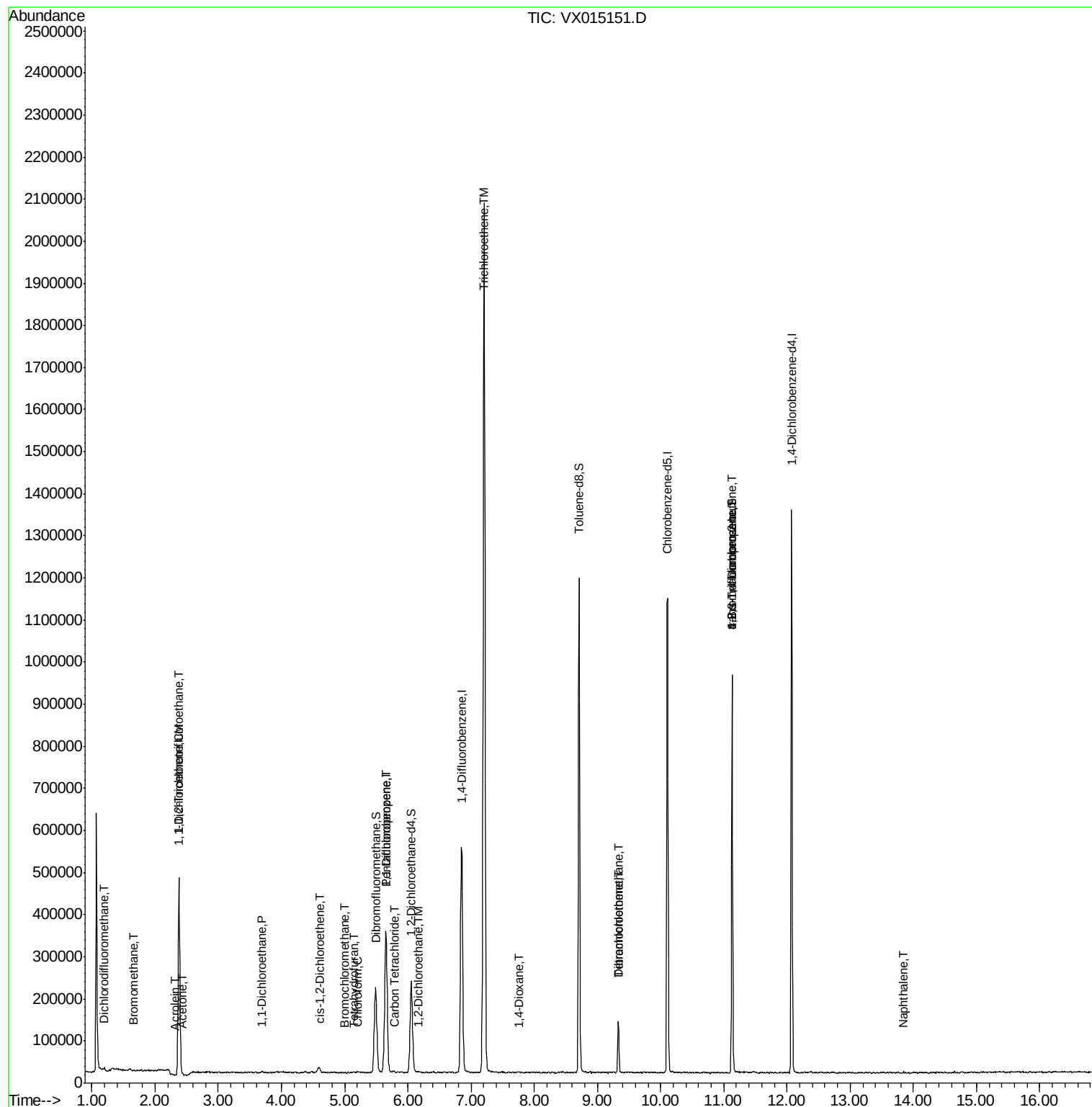
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	1240	0.42	ug/l	89
5) Bromomethane	1.67	94	1011	0.39	ug/l #	11
9) 1,1,2-Trichlorotrifluoroet	2.38	101	187655	59.41	ug/l	99
12) 1,1-Dichloroethene	2.37	96	2671	0.82	ug/l	91
13) Acrolein	2.31	56	497	0.77	ug/l #	31
16) Acetone	2.44	43	2474	1.53	ug/l #	80
24) 1,1-Dichloroethane	3.69	63	2071	0.33	ug/l #	63
27) cis-1,2-Dichloroethene	4.60	96	8213	2.10	ug/l	99
28) Bromochloromethane	5.00	49	623	0.22	ug/l #	28
29) Tetrahydrofuran	5.14	42	444	0.29	ug/l #	33
30) Chloroform	5.21	83	2263	0.37	ug/l	86
36) 1,1-Dichloropropene	5.65	75	25006	4.91	ug/l #	53
38) Carbon Tetrachloride	5.78	117	2565	0.53	ug/l #	71
42) 1,2-Dichloroethane	6.17	62	1164	0.22	ug/l	87
44) Trichloroethene	7.21	130	799440	189.85	ug/l	98
49) 1,4-Dioxane	7.75	88	1812	19.80	ug/l #	61
60) Dibromochloromethane	9.33	129	22313	5.58	ug/l #	13
64) Tetrachloroethene	9.33	164	25423	5.74	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	121857	22.21	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	121857	63.03	ug/l #	11
95) Naphthalene	13.83	128	249	1.43	ug/l #	56

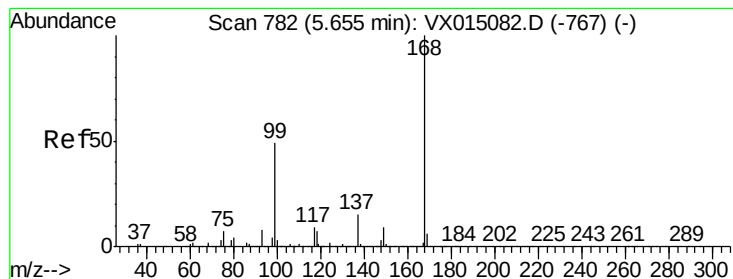
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Mar 04 14:19:10 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX015151.D

Acq: 09 Mar 2020 18:22

Instrument :

MSVOA_X

ClientSampleId :

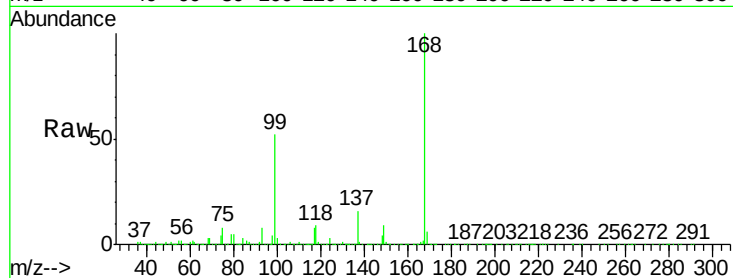
RE125D3-20200306

Tgt Ion:168 Resp: 335479

Ion Ratio Lower Upper

168 100

99 52.2 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

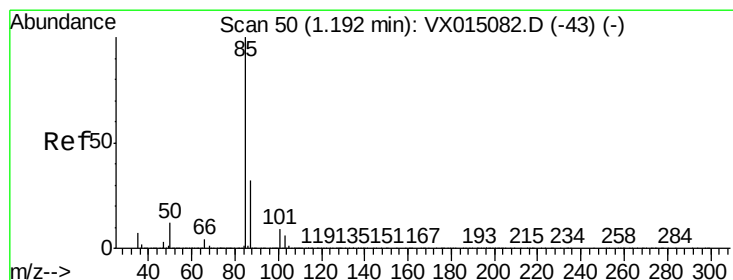
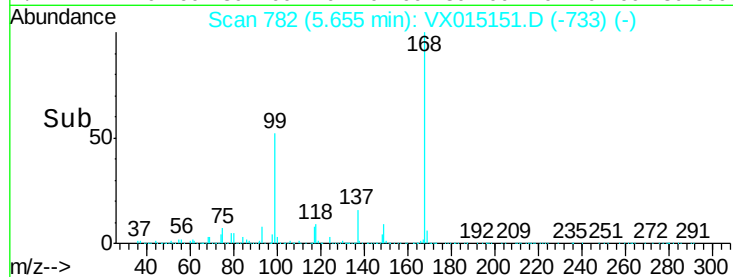
5.65

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.42 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX015151.D

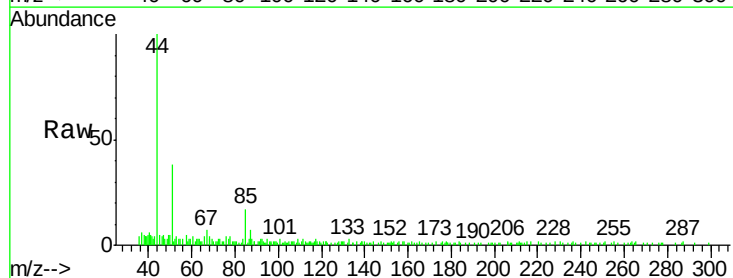
Acq: 09 Mar 2020 18:22

Tgt Ion: 85 Resp: 1240

Ion Ratio Lower Upper

85 100

87 38.7 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

1200

1000

800

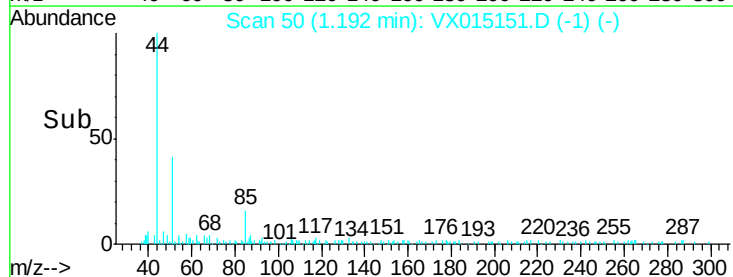
600

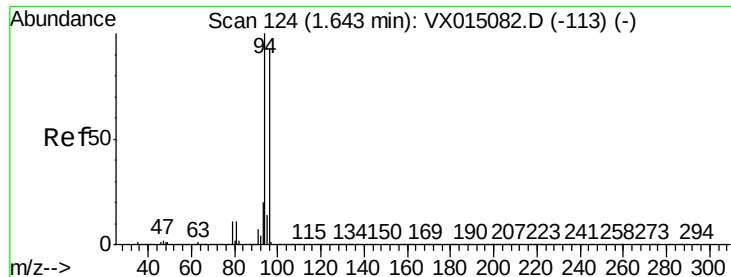
400

200

0

Time-->





#5

Bromomethane

Concen: 0.39 ug/l

RT: 1.67 min Scan# 128

Delta R.T. 0.02 min

Lab File: VX015151.D

Acq: 09 Mar 2020 18:22

Instrument :

MSVOA_X

ClientSampleId :

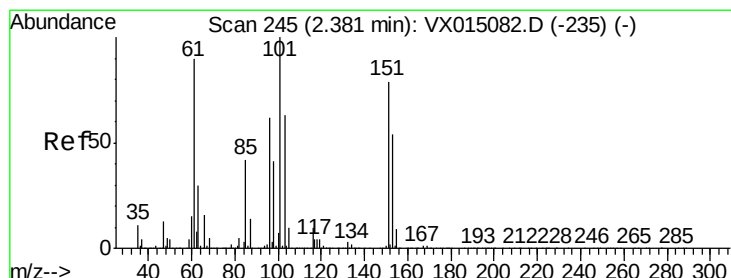
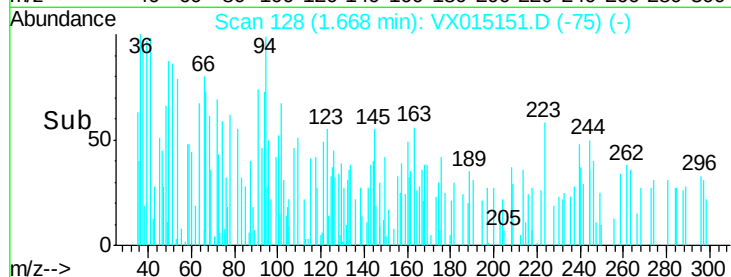
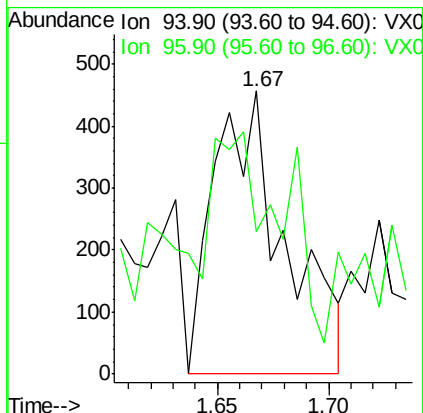
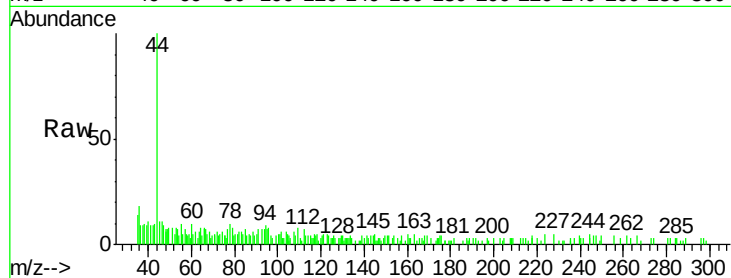
RE125D3-20200306

Tgt Ion: 94 Resp: 1011

Ion Ratio Lower Upper

94 100

96 7.9 74.6 111.8#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 59.41 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.00 min

Lab File: VX015151.D

Acq: 09 Mar 2020 18:22

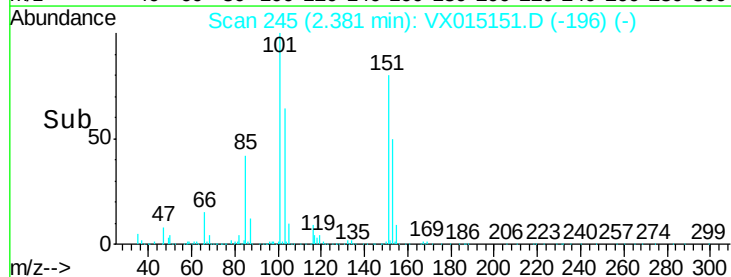
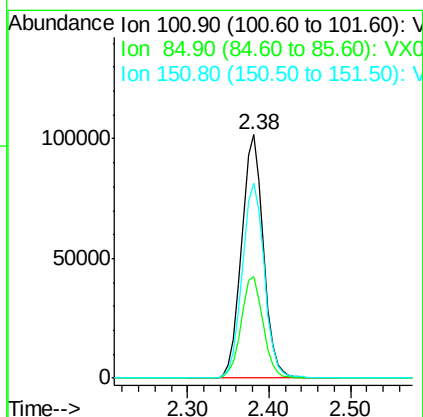
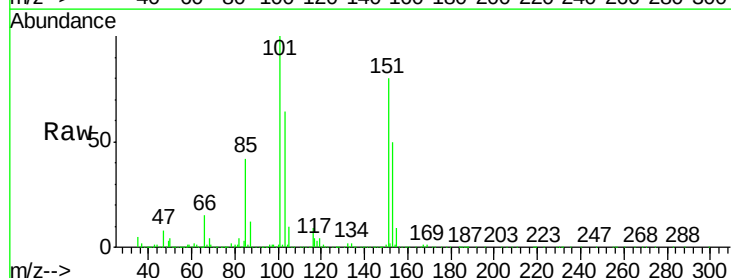
Tgt Ion: 101 Resp: 187655

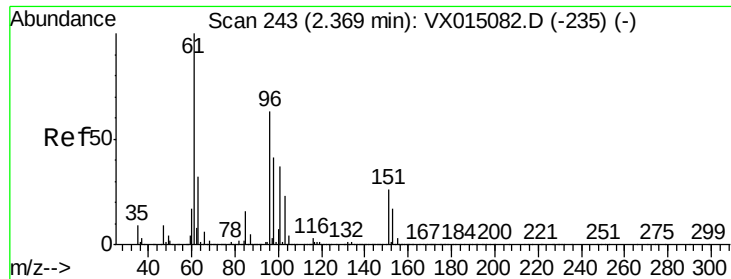
Ion Ratio Lower Upper

101 100

85 42.0 33.7 50.5

151 81.6 64.0 96.0

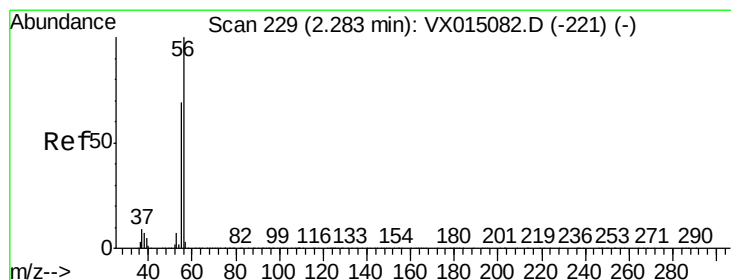
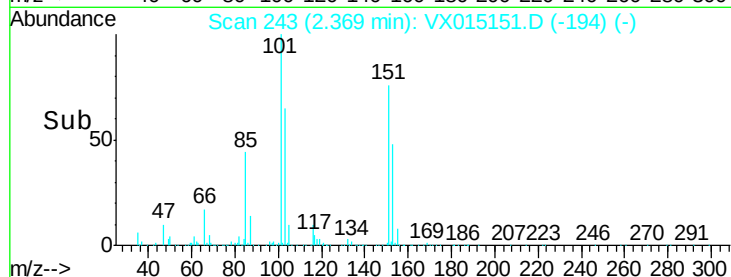
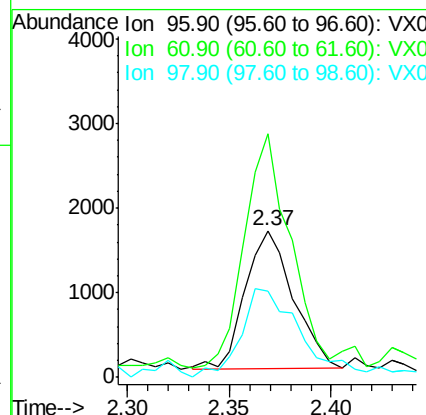
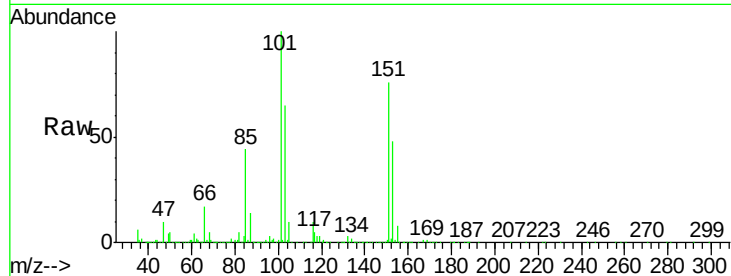




#12
 1,1-Dichloroethene
 Concen: 0.82 ug/l
 RT: 2.37 min Scan# 243
 Delta R.T. 0.00 min
 Lab File: VX015151.D
 Acq: 09 Mar 2020 18:22

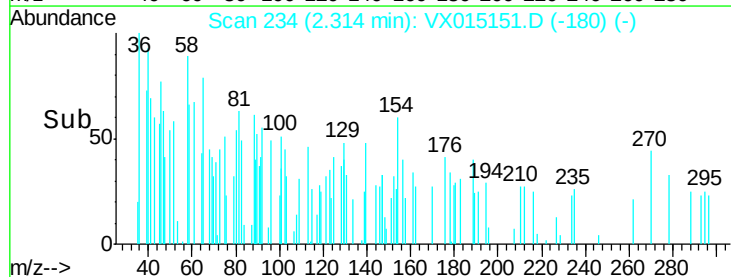
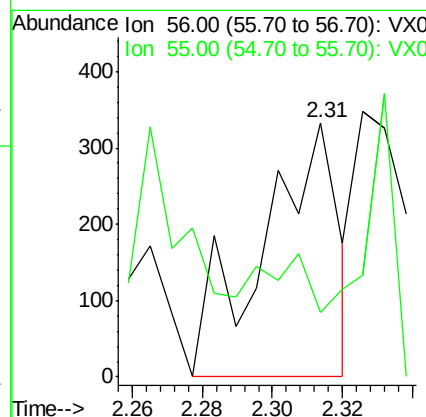
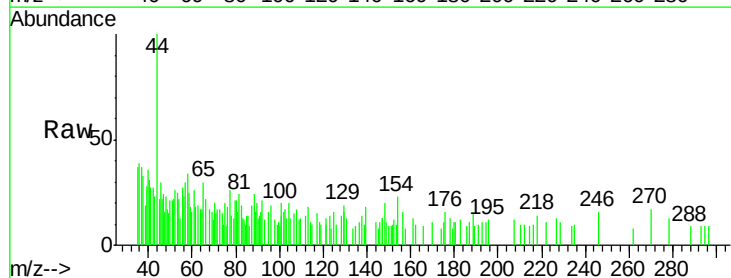
Instrument :
 MSVOA_X
 ClientSampleId :
 RE125D3-20200306

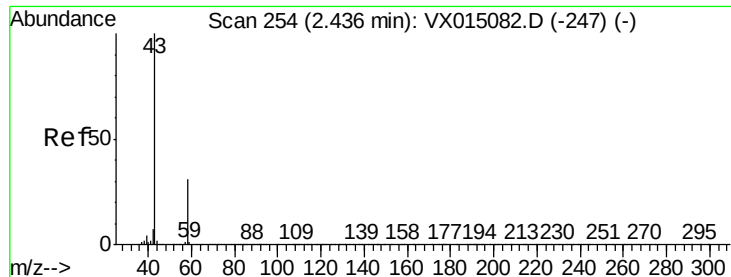
Tgt Ion: 96 Resp: 2671
 Ion Ratio Lower Upper
 96 100
 61 169.6 126.2 189.4
 98 57.6 51.4 77.0



#13
 Acrolein
 Concen: 0.77 ug/l
 RT: 2.31 min Scan# 234
 Delta R.T. 0.03 min
 Lab File: VX015151.D
 Acq: 09 Mar 2020 18:22

Tgt Ion: 56 Resp: 497
 Ion Ratio Lower Upper
 56 100
 55 13.3 55.4 83.0#





#16

Acetone

Concen: 1.53 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX015151.D

Acq: 09 Mar 2020 18:22

Instrument :

MSVOA_X

ClientSampleId :

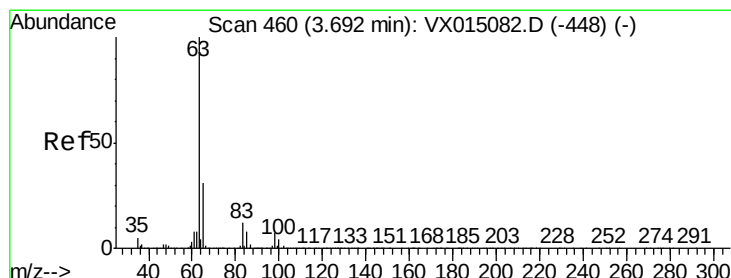
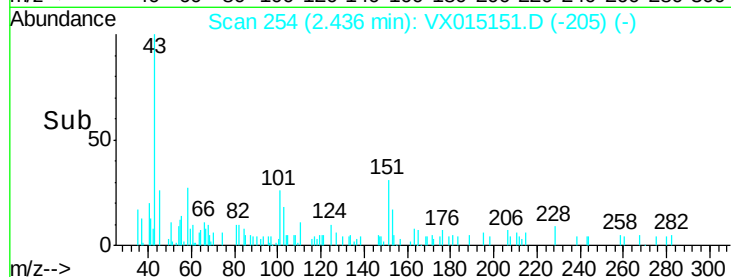
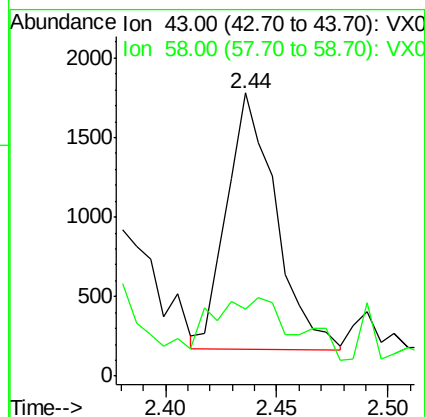
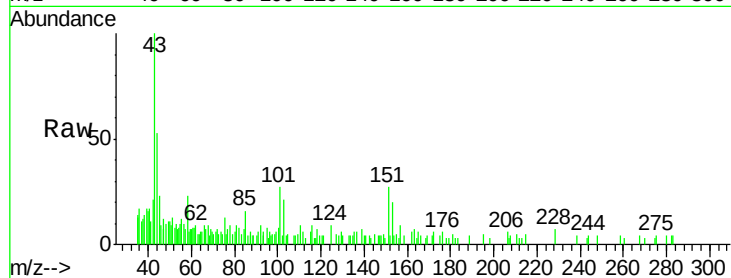
RE125D3-20200306

Tgt Ion: 43 Resp: 2474

Ion Ratio Lower Upper

43 100

58 19.8 24.8 37.2#



#24

1,1-Dichloroethane

Concen: 0.33 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.00 min

Lab File: VX015151.D

Acq: 09 Mar 2020 18:22

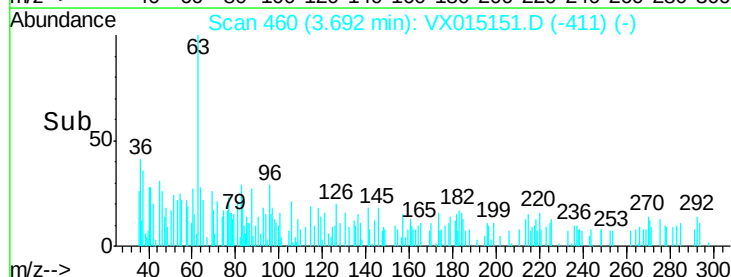
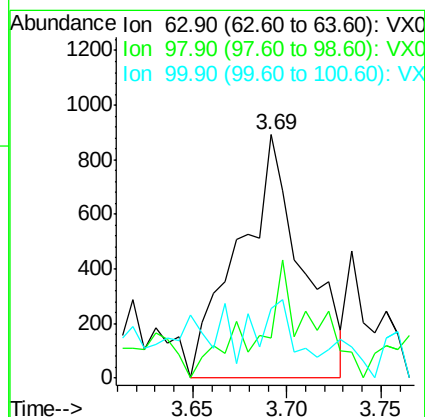
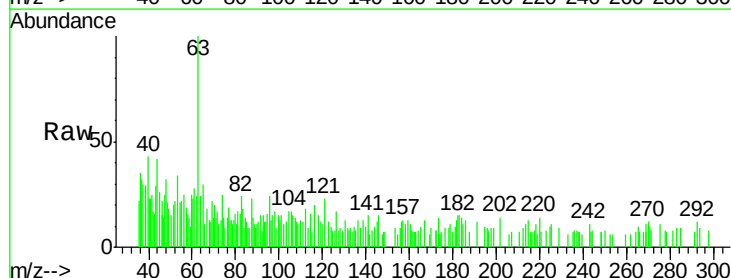
Tgt Ion: 63 Resp: 2071

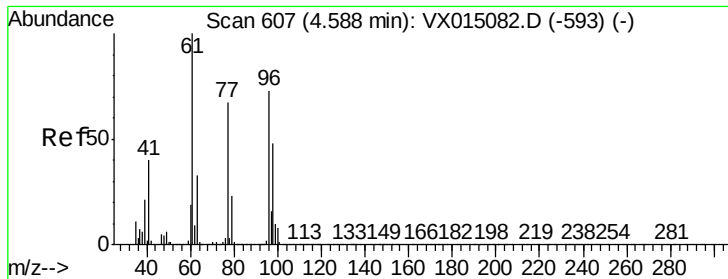
Ion Ratio Lower Upper

63 100

98 20.8 3.7 11.1#

100 15.9 2.1 6.5#





#27

cis-1,2-Dichloroethene

Concen: 2.10 ug/l

RT: 4.60 min Scan# 609

Delta R.T. 0.01 min

Lab File: VX015151.D

Acq: 09 Mar 2020 18:22

Instrument :

MSVOA_X

ClientSampleId :

RE125D3-20200306

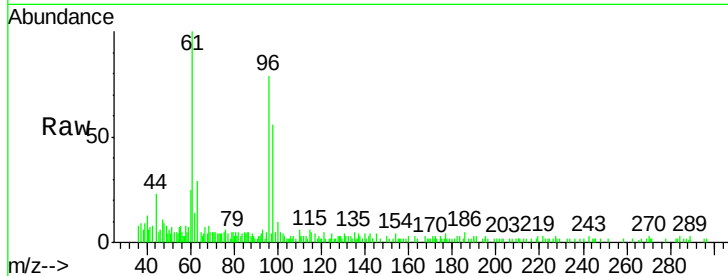
Tgt Ion: 96 Resp: 8213

Ion Ratio Lower Upper

96 100

61 144.4 0.0 286.8

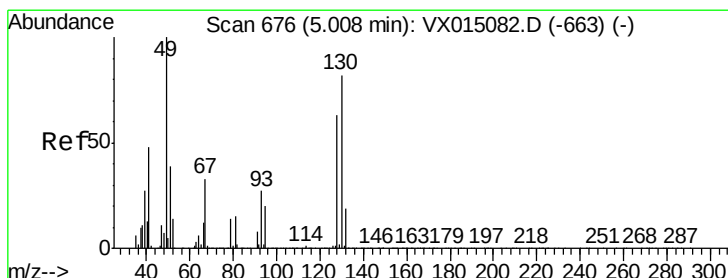
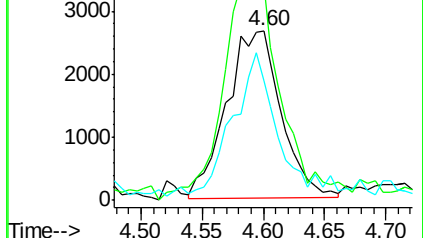
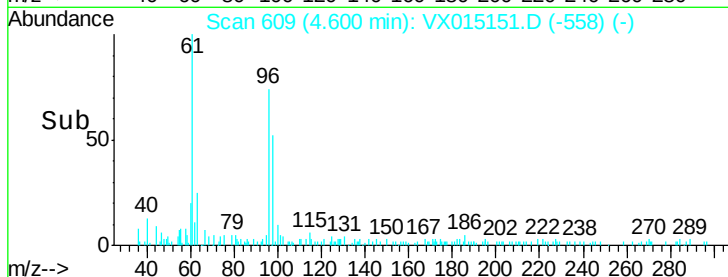
98 62.9 0.0 128.4



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#28

Bromochloromethane

Concen: 0.22 ug/l

RT: 5.00 min Scan# 674

Delta R.T. -0.01 min

Lab File: VX015151.D

Acq: 09 Mar 2020 18:22

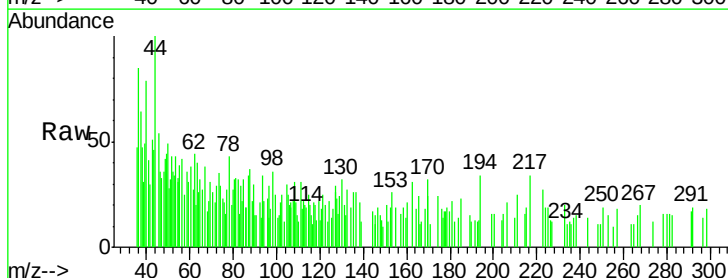
Tgt Ion: 49 Resp: 623

Ion Ratio Lower Upper

49 100

129 91.3 0.0 4.4#

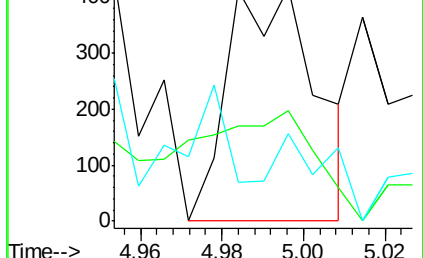
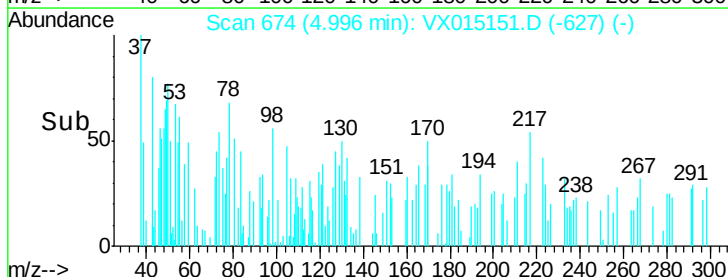
130 21.7 65.0 97.6#

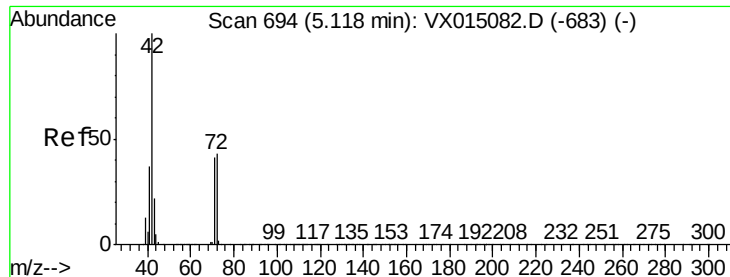


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 0.29 ug/l

RT: 5.14 min Scan# 697

Delta R.T. 0.02 min

Lab File: VX015151.D

Acq: 09 Mar 2020 18:22

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RE125D3-20200306

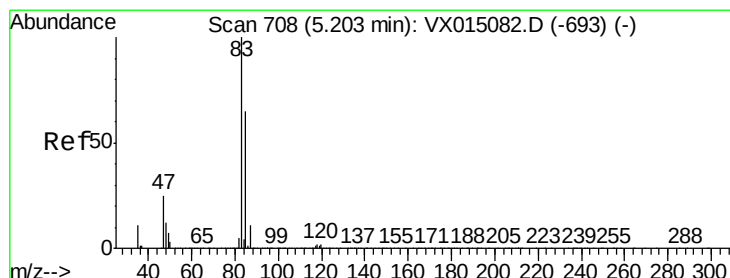
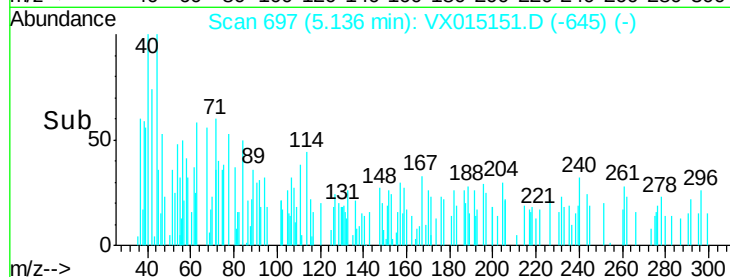
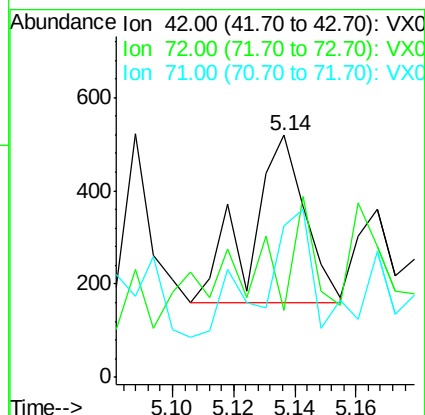
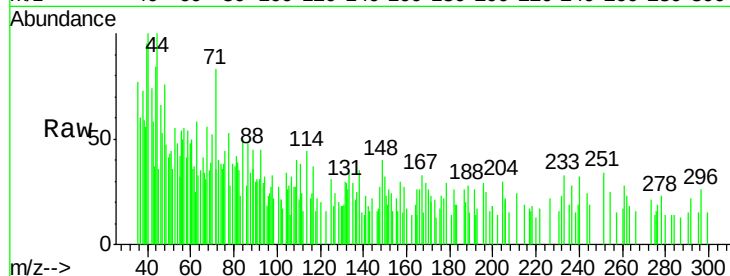
Tgt Ion: 42 Resp: 444

Ion Ratio Lower Upper

42 100

72 0.0 36.4 54.6#

71 82.0 33.3 49.9#



#30

Chloroform

Concen: 0.37 ug/l

RT: 5.21 min Scan# 709

Delta R.T. 0.01 min

Lab File: VX015151.D

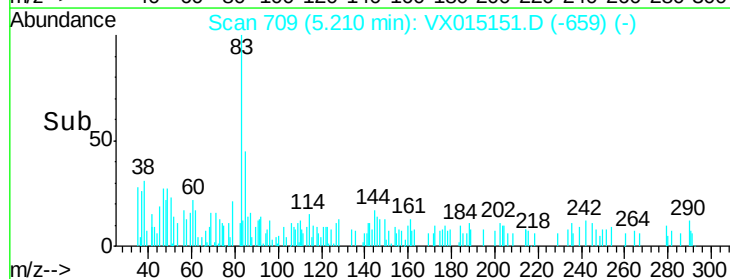
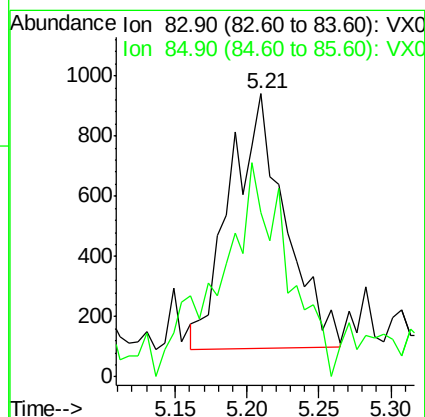
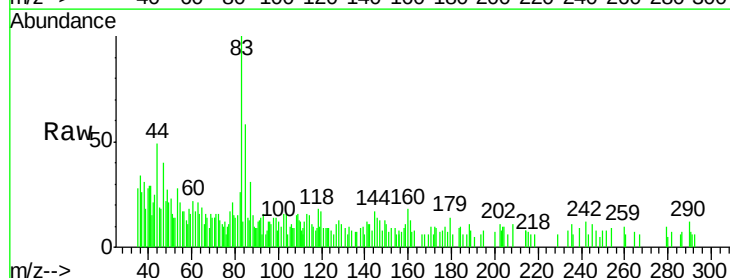
Acq: 09 Mar 2020 18:22

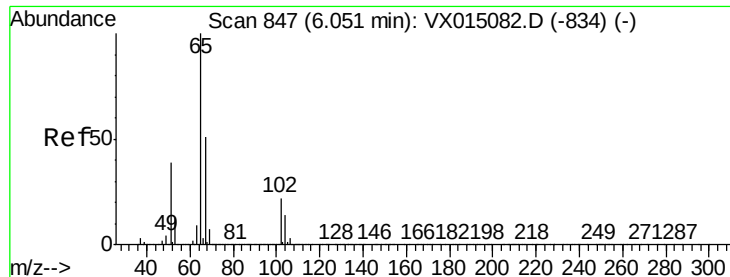
Tgt Ion: 83 Resp: 2263

Ion Ratio Lower Upper

83 100

85 53.6 52.0 78.0

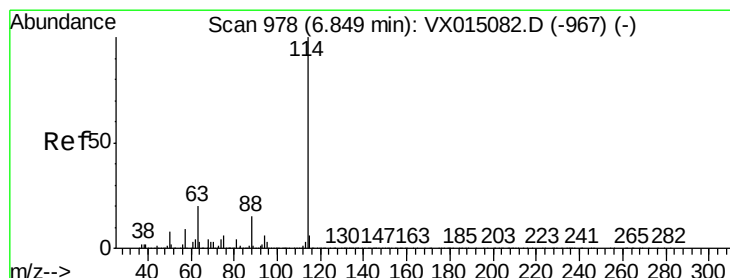
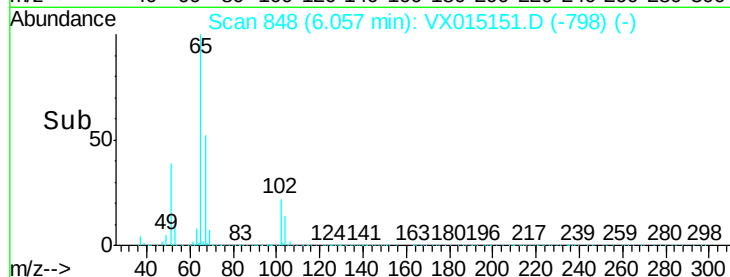
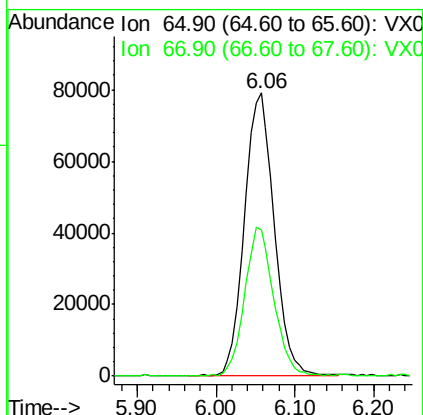
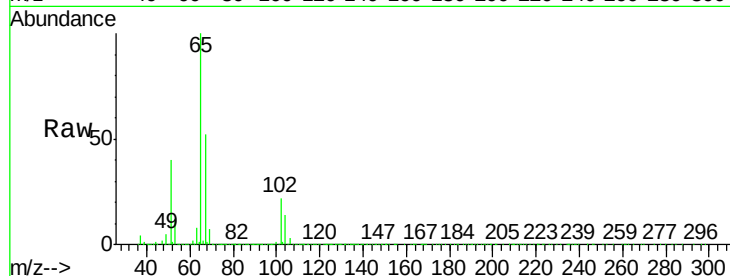




#33
 1,2-Dichloroethane-d4
 Concen: 51.85 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: VX015151.D
 Acq: 09 Mar 2020 18:22

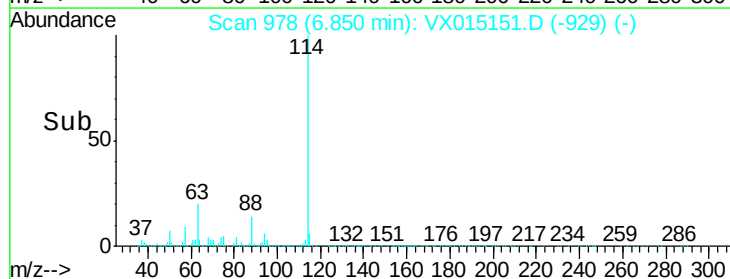
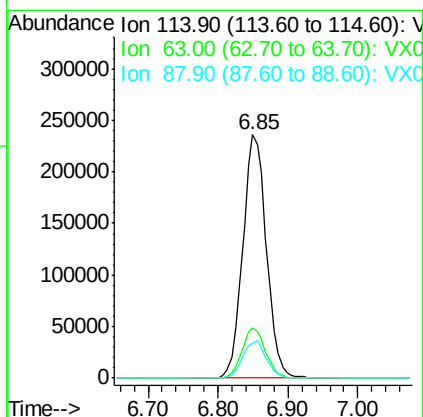
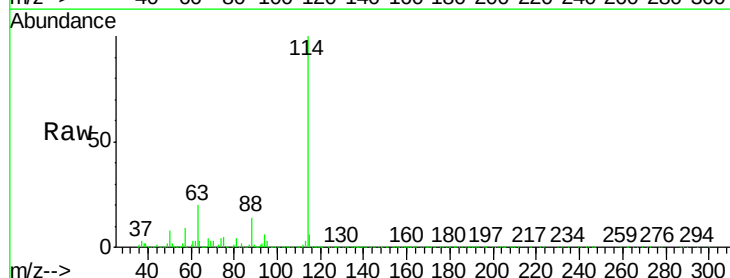
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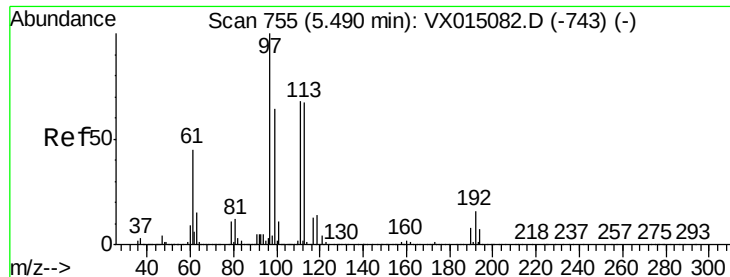
Tgt Ion: 65 Resp: 206367
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX015151.D
 Acq: 09 Mar 2020 18:22

Tgt Ion: 114 Resp: 551296
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 40.0
 88 14.3 0.0 30.6





#35

Dibromofluoromethane

Concen: 49.91 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX015151.D

Acq: 09 Mar 2020 18:22

Instrument :

MSVOA_X

ClientSampleId :

RE125D3-20200306

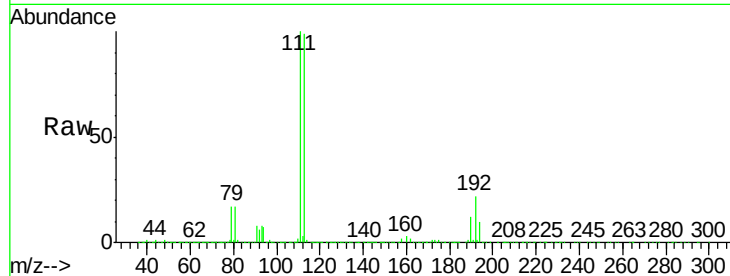
Tgt Ion:113 Resp: 173569

Ion Ratio Lower Upper

113 100

111 101.3 82.6 123.8

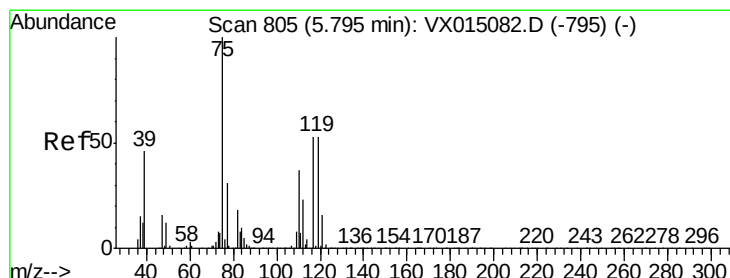
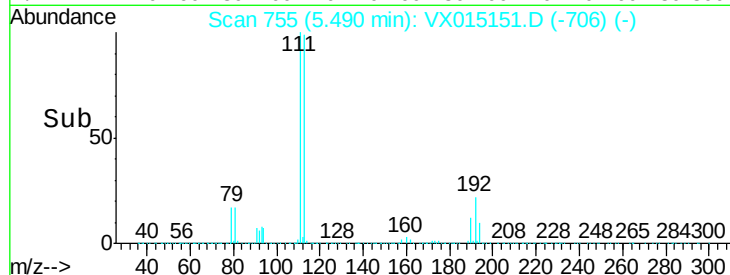
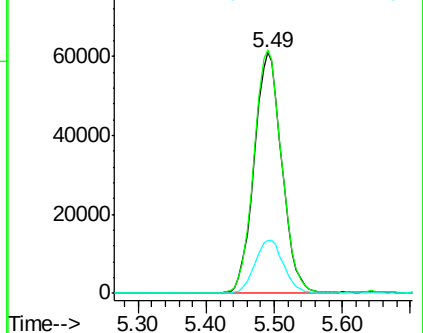
192 23.1 18.6 28.0



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: 4.91 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.14 min

Lab File: VX015151.D

Acq: 09 Mar 2020 18:22

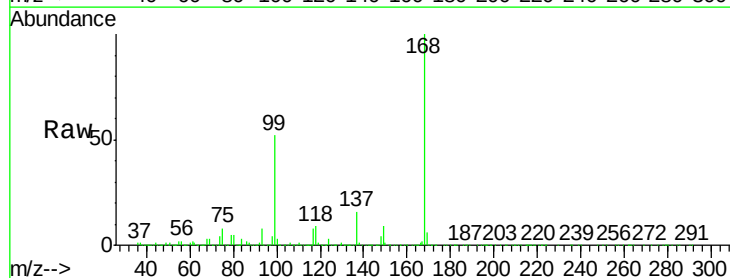
Tgt Ion: 75 Resp: 25006

Ion Ratio Lower Upper

75 100

110 11.5 17.9 53.8#

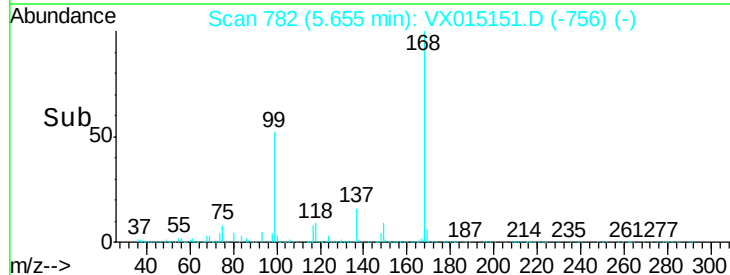
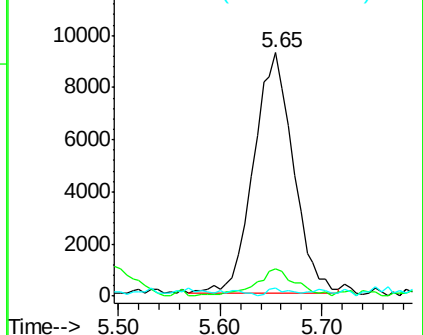
77 1.9 24.8 37.2#

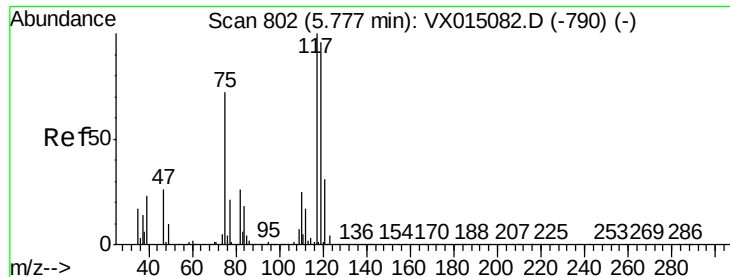


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 0.53 ug/l

RT: 5.78 min Scan# 802

Delta R.T. 0.00 min

Lab File: VX015151.D

Acq: 09 Mar 2020 18:22

Instrument :

MSVOA_X

ClientSampleId :

RE125D3-20200306

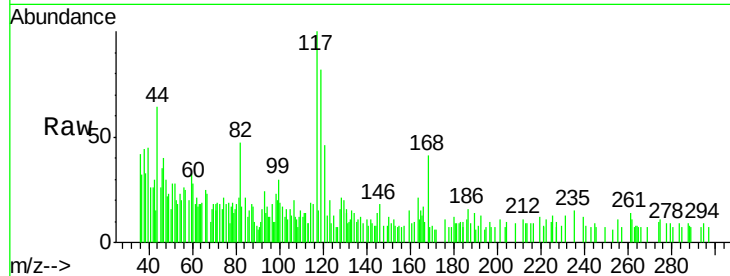
Tgt Ion:117 Resp: 2565

Ion Ratio Lower Upper

117 100

119 62.0 76.9 115.3#

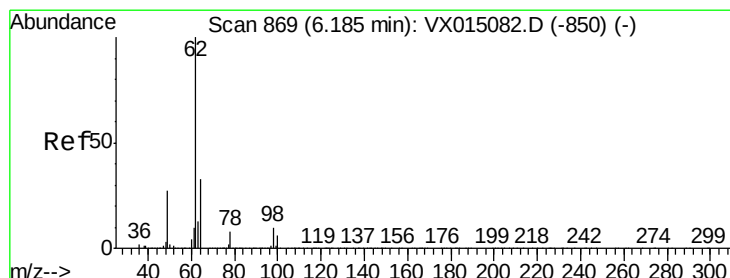
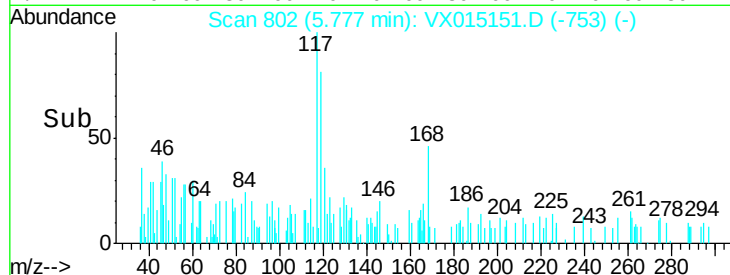
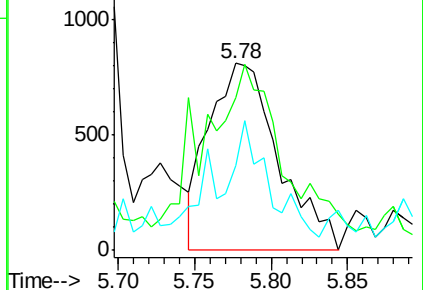
121 24.0 24.6 37.0#



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



#42

1,2-Dichloroethane

Concen: 0.22 ug/l

RT: 6.17 min Scan# 867

Delta R.T. -0.01 min

Lab File: VX015151.D

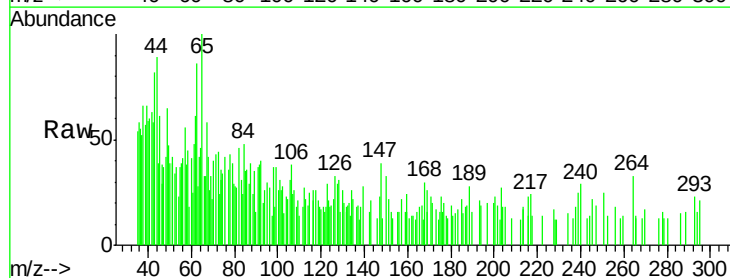
Acq: 09 Mar 2020 18:22

Tgt Ion: 62 Resp: 1164

Ion Ratio Lower Upper

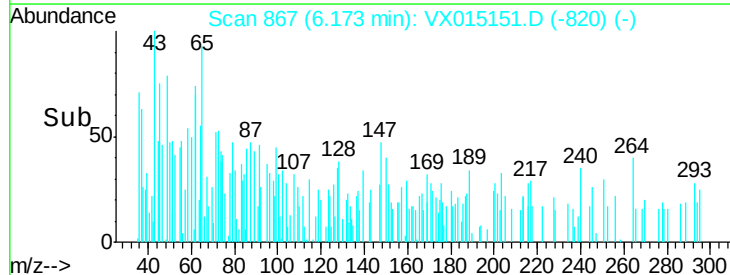
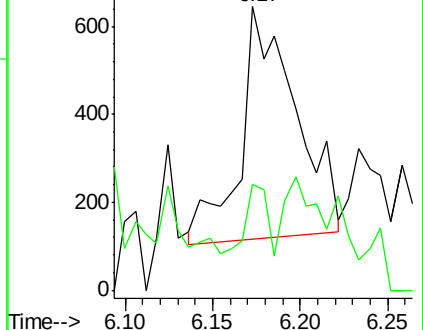
62 100

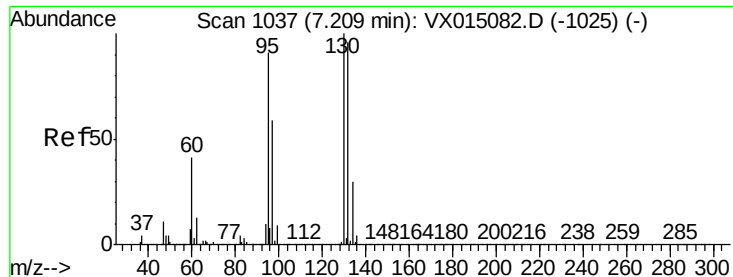
98 15.0 0.0 20.6



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 189.85 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX015151.D

Acq: 09 Mar 2020 18:22

Instrument :

MSVOA_X

ClientSampleId :

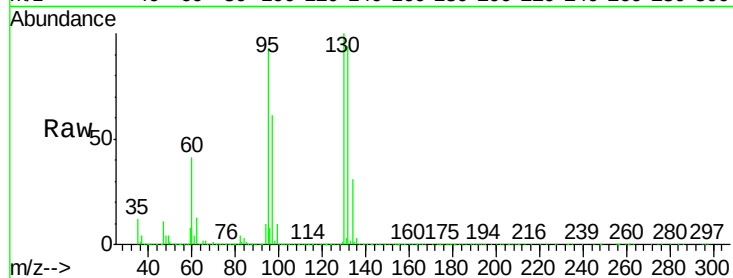
RE125D3-20200306

Tgt Ion: 130 Resp: 799440

Ion Ratio Lower Upper

130 100

95 92.6 0.0 181.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

400000

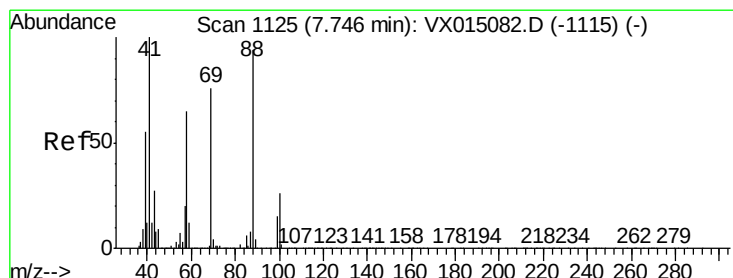
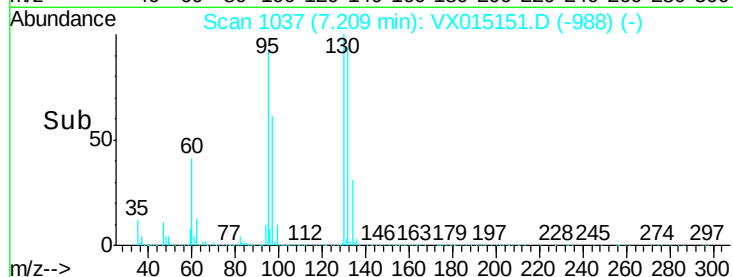
300000

200000

100000

0

Time-->



#49

1,4-Dioxane

Concen: 19.80 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.01 min

Lab File: VX015151.D

Acq: 09 Mar 2020 18:22

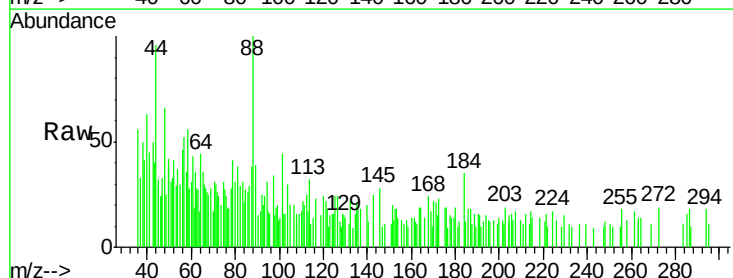
Tgt Ion: 88 Resp: 1812

Ion Ratio Lower Upper

88 100

43 24.3 27.0 40.4#

58 28.4 55.6 83.4#



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

7.75

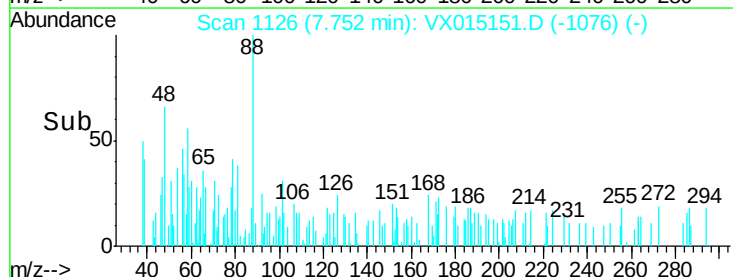
600

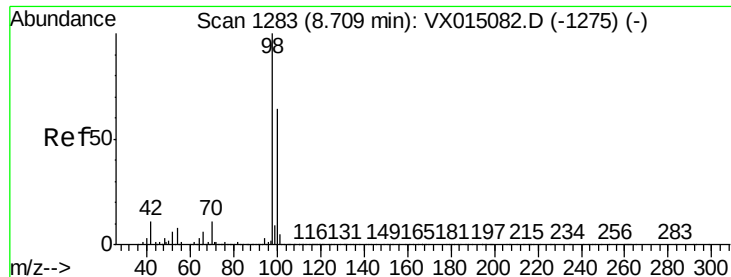
400

200

0

Time-->





#50

Toluene-d8

Concen: 50.66 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX015151.D

Acq: 09 Mar 2020 18:22

Instrument :

MSVOA_X

ClientSampleId :

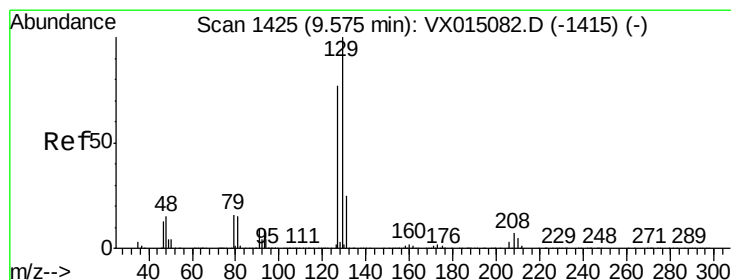
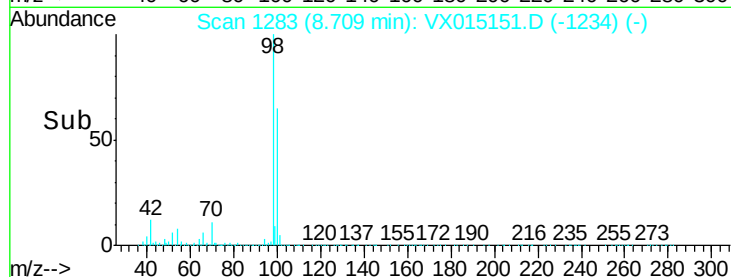
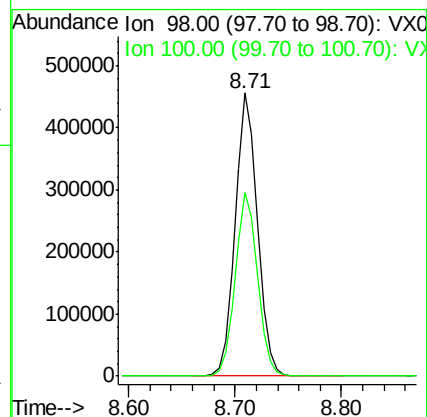
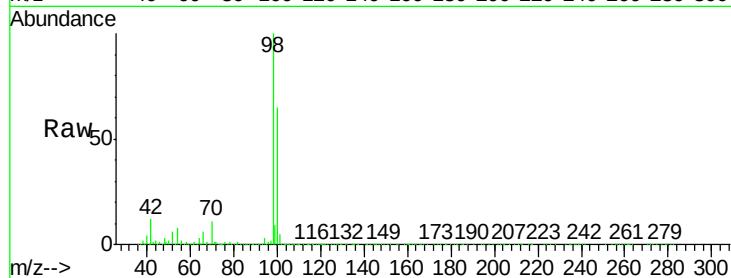
RE125D3-20200306

Tgt Ion: 98 Resp: 670158

Ion Ratio Lower Upper

98 100

100 65.1 52.4 78.6



#60

Dibromochloromethane

Concen: 5.58 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.24 min

Lab File: VX015151.D

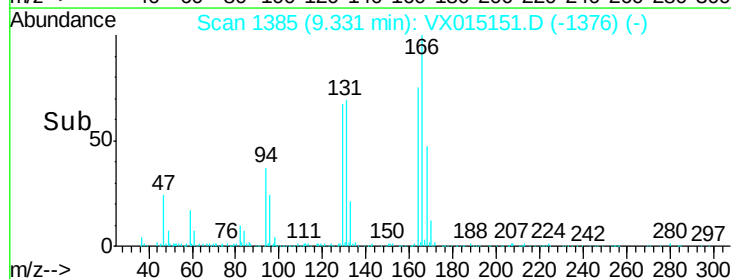
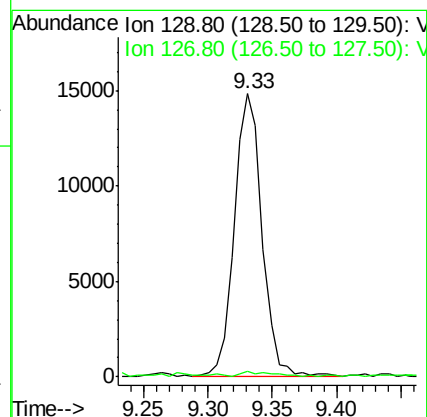
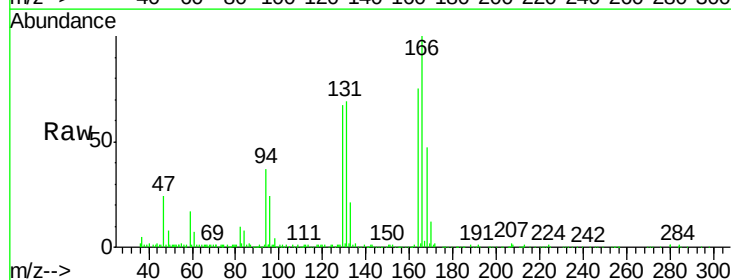
Acq: 09 Mar 2020 18:22

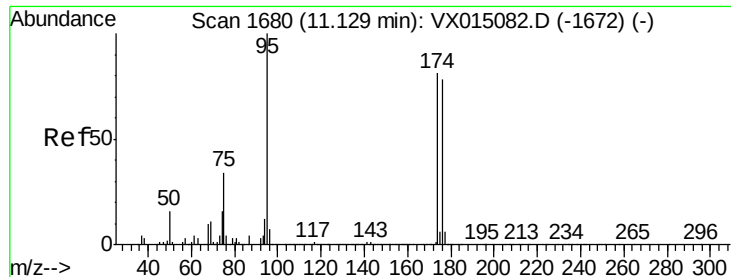
Tgt Ion: 129 Resp: 22313

Ion Ratio Lower Upper

129 100

127 2.1 38.8 116.3#





#62

4-Bromofluorobenzene

Concen: 51.85 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX015151.D

Acq: 09 Mar 2020 18:22

Instrument :

MSVOA_X

ClientSampleId :

RE125D3-20200306

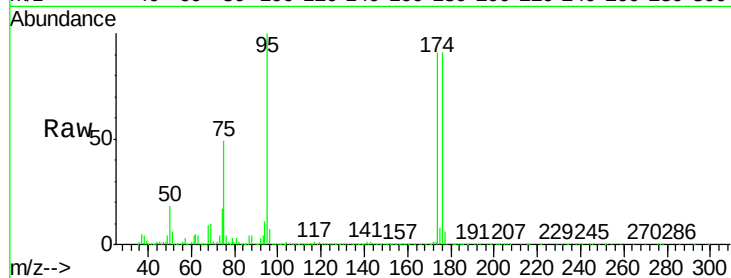
Tgt Ion: 95 Resp: 244676

Ion Ratio Lower Upper

95 100

174 88.5 0.0 177.6

176 86.6 0.0 170.2

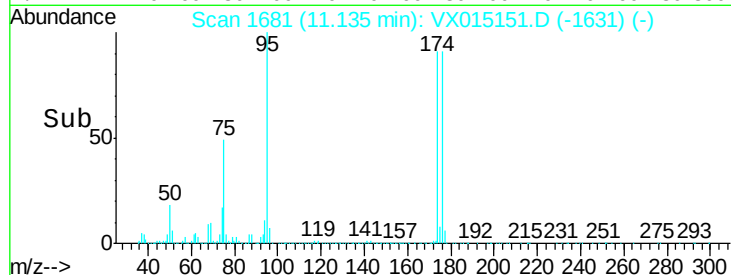


Abundance Ion 94.90 (94.60 to 95.60): VX0

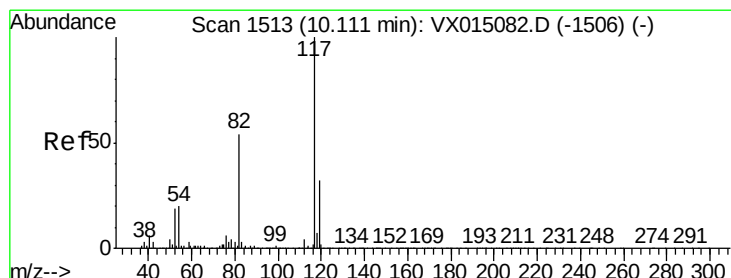
Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0

Time-->



Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX015151.D

Acq: 09 Mar 2020 18:22

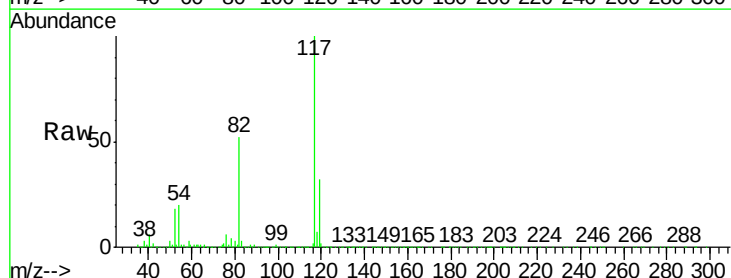
Tgt Ion: 117 Resp: 535571

Ion Ratio Lower Upper

117 100

82 51.8 43.3 64.9

119 32.5 25.8 38.8

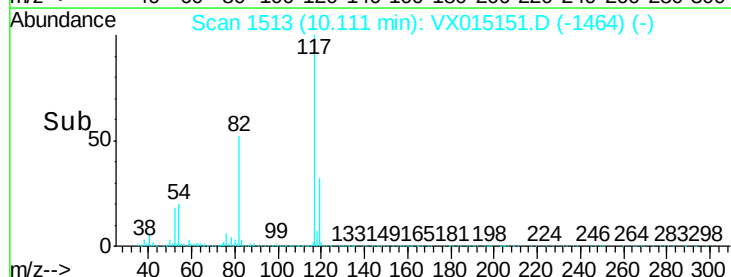


Abundance Ion 116.90 (116.60 to 117.60): VX0

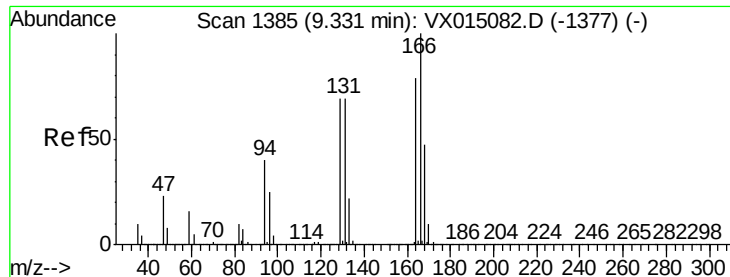
Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0

Time-->



Time-->



#64

Tetrachloroethene

Concen: 5.74 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX015151.D

Acq: 09 Mar 2020 18:22

Instrument :

MSVOA_X

ClientSampleId :

RE125D3-20200306

Tgt Ion:164 Resp: 25423

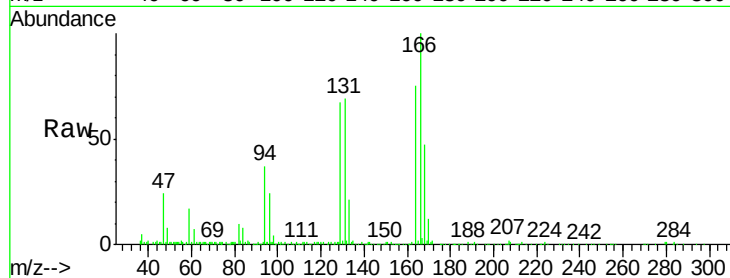
Ion Ratio Lower Upper

164 100

166 134.3 101.1 151.7

129 89.6 69.4 104.0

131 92.7 69.8 104.8

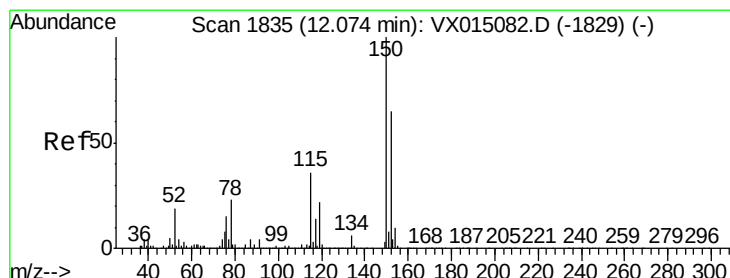
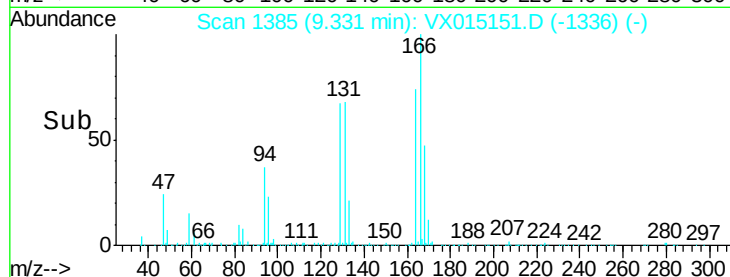
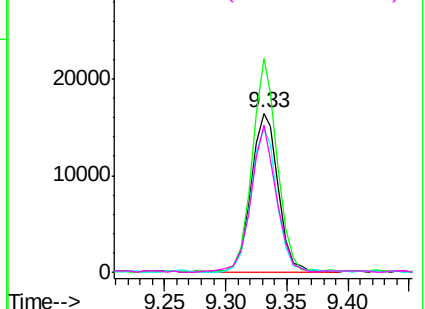


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX015151.D

Acq: 09 Mar 2020 18:22

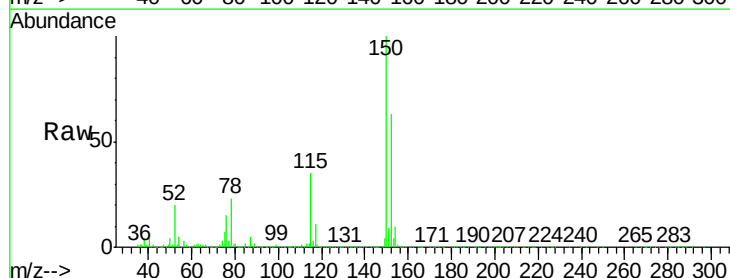
Tgt Ion:152 Resp: 275060

Ion Ratio Lower Upper

152 100

115 55.1 38.2 114.6

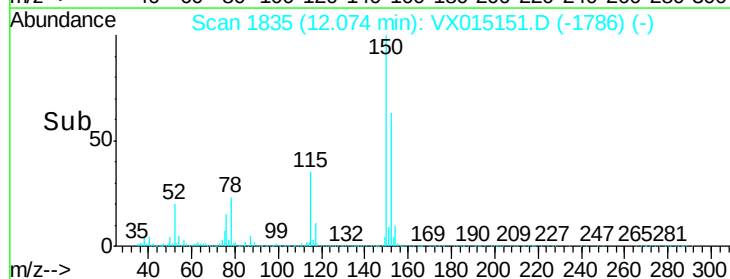
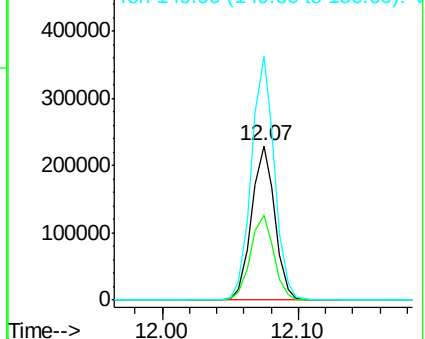
150 156.7 0.0 343.8

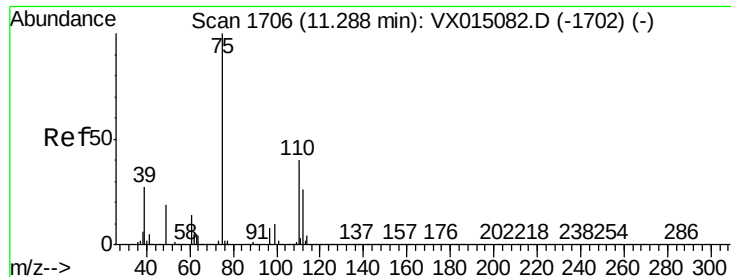


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.21 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX015151.D

Acq: 09 Mar 2020 18:22

Instrument :

MSVOA_X

ClientSampleId :

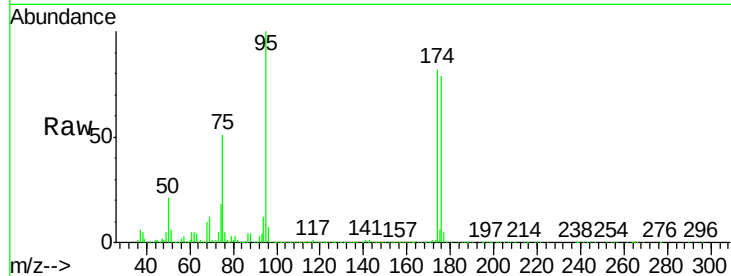
RE125D3-20200306

Tgt Ion: 75 Resp: 121857

Ion Ratio Lower Upper

75 100

77 1.3 22.6 67.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

100000

80000

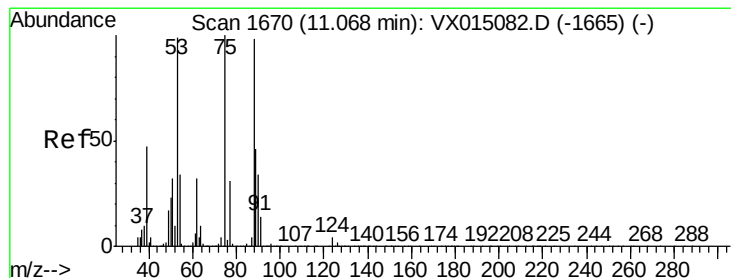
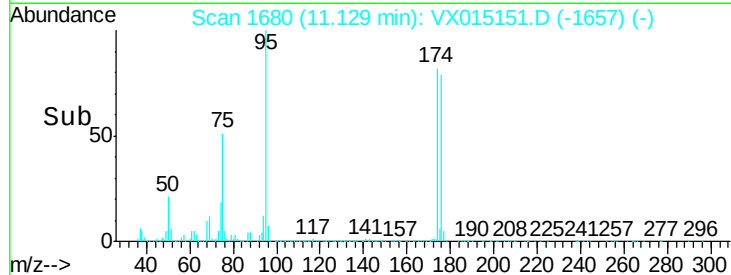
60000

40000

20000

0

Time--> 11.05 11.10 11.15



#81

trans-1,4-Dichloro-2-butene

Concen: 63.03 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015151.D

Acq: 09 Mar 2020 18:22

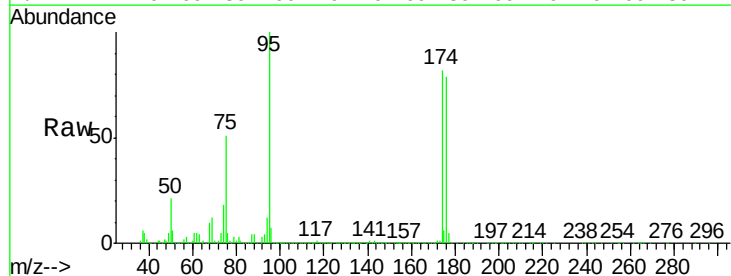
Tgt Ion: 75 Resp: 121857

Ion Ratio Lower Upper

75 100

53 0.5 77.9 116.9#

89 0.0 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

120000

100000

80000

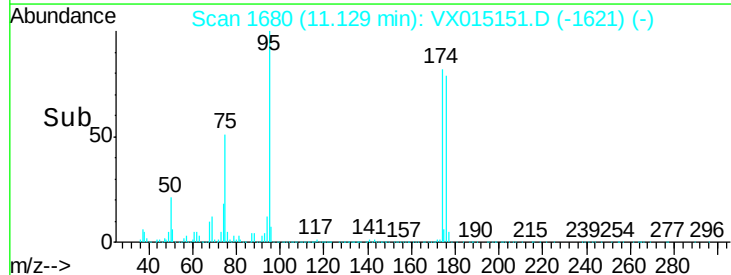
60000

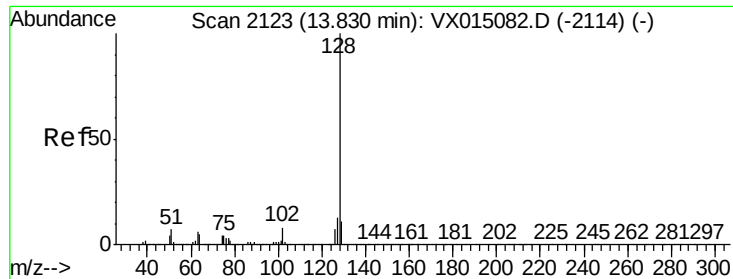
40000

20000

0

Time--> 11.05 11.10 11.15





#95

Naphthalene

Concen: 1.43 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX015151.D

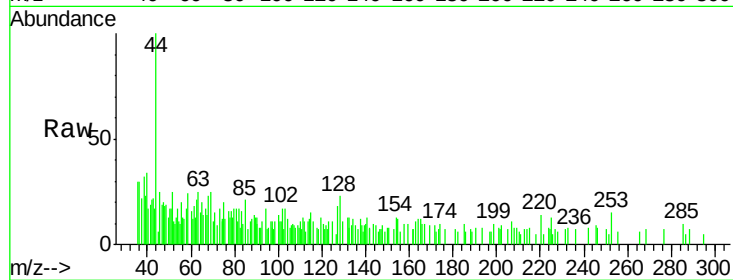
Acq: 09 Mar 2020 18:22

Instrument :

MSVOA_X

ClientSampleId :

RE125D3-20200306



Tgt Ion:	128	Resp:	249
Ion	Ratio	Lower	Upper
128	100		
127	35.7	10.3	15.5#
129	0.0	8.6	13.0#

