

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX030920\
 Data File : VX015140.D
 Acq On : 09 Mar 2020 14:13
 Operator : JC/SP
 Sample : L1842-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE108D1-20200304

Quant Time: Mar 09 14:59:05 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	338943	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	561547	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	538488	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	266698	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	214202	53.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.54%	
35) Dibromofluoromethane	5.49	113	175646	49.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.16%	
50) Toluene-d8	8.71	98	681377	50.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.12%	
62) 4-Bromofluorobenzene	11.13	95	244280	50.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.64%	

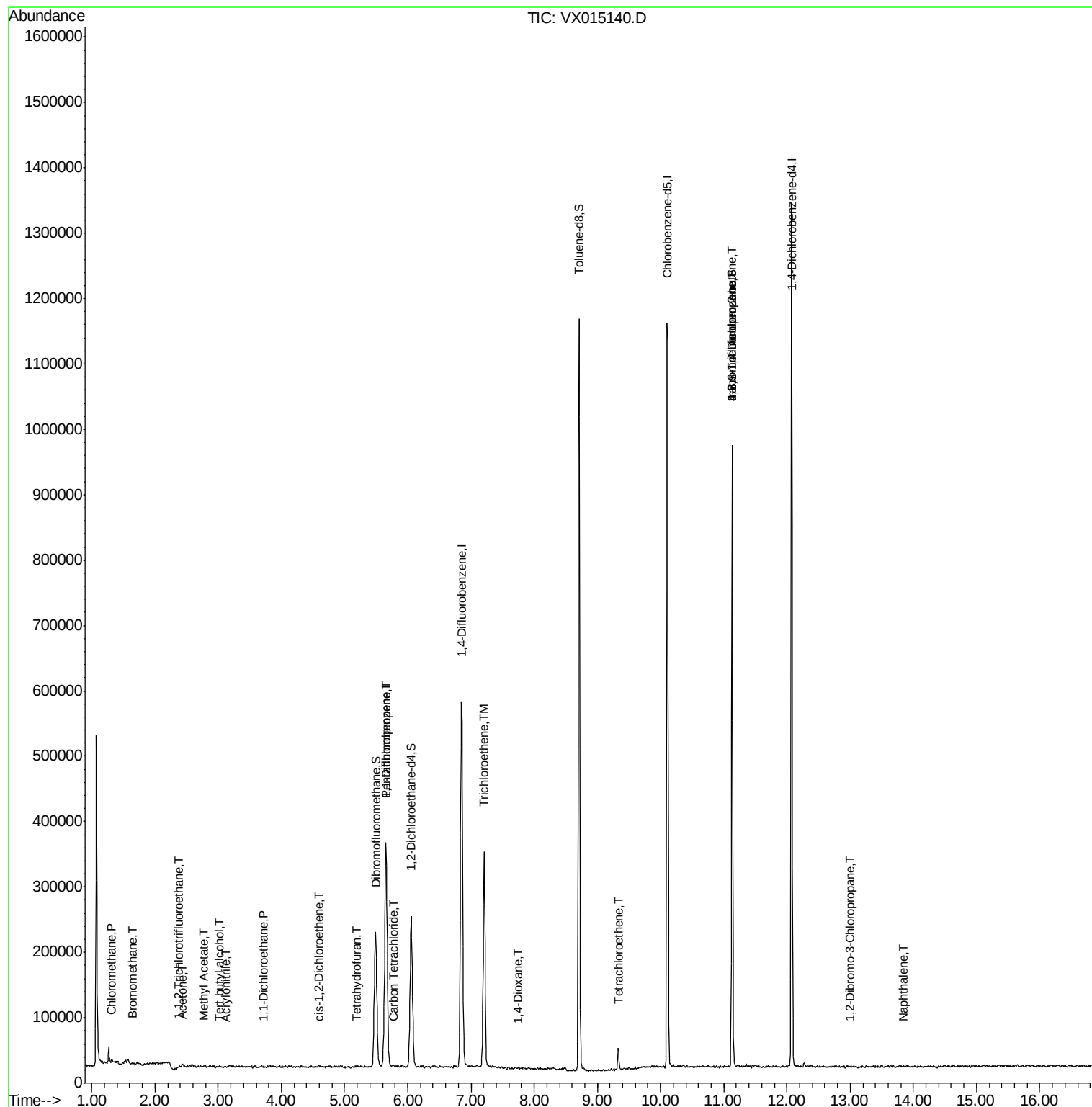
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1773	0.42	ug/l #	88
5) Bromomethane	1.65	94	669	0.26	ug/l	82
9) 1,1,2-Trichlorotrifluoroet	2.38	101	1570	0.49	ug/l #	89
11) Tert butyl alcohol	3.03	59	837	1.20	ug/l #	72
15) Acrylonitrile	3.12	53	835	0.48	ug/l #	69
16) Acetone	2.43	43	7566	4.65	ug/l	89
18) Methyl Acetate	2.77	43	1269	0.32	ug/l #	75
24) 1,1-Dichloroethane	3.72	63	1302	0.21	ug/l #	42
27) cis-1,2-Dichloroethene	4.59	96	1403	0.36	ug/l	29
29) Tetrahydrofuran	5.18	42	452	0.29	ug/l	97
36) 1,1-Dichloropropene	5.65	75	24461	4.71	ug/l #	53
38) Carbon Tetrachloride	5.78	117	1005	0.21	ug/l #	51
44) Trichloroethene	7.21	130	129622	30.22	ug/l	100
49) 1,4-Dioxane	7.75	88	1438	15.43	ug/l	97
64) Tetrachloroethene	9.33	164	7386	1.66	ug/l	92
76) 1,2,3-Trichloropropane	11.13	75	125386	23.57	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	125386	66.89	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.99	75	240	0.21	ug/l #	38
95) Naphthalene	13.84	128	650	1.46	ug/l #	35

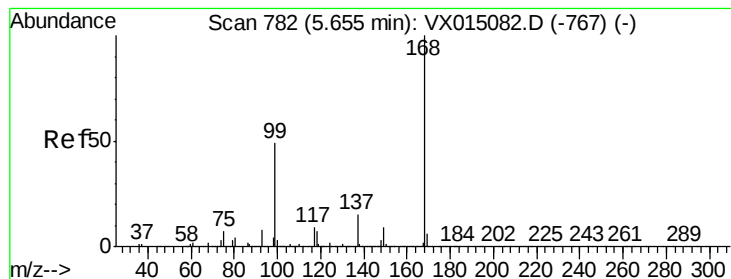
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Mar 04 14:19:10 2020
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX015140.D

Acq: 09 Mar 2020 14:13

Instrument :

MSVOA_X

ClientSampleId :

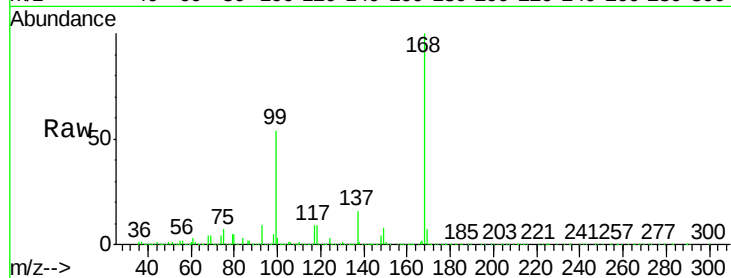
RE108D1-20200304

Tgt Ion:168 Resp: 338943

Ion Ratio Lower Upper

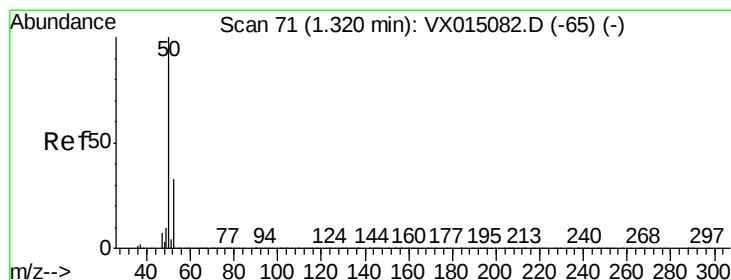
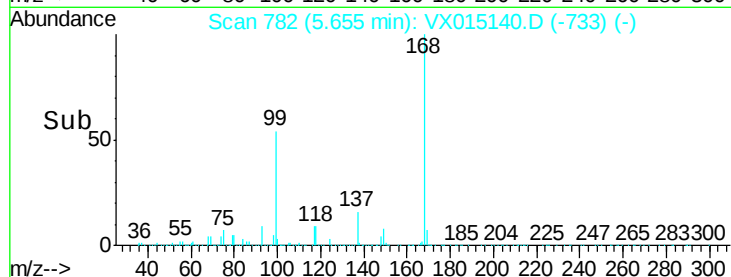
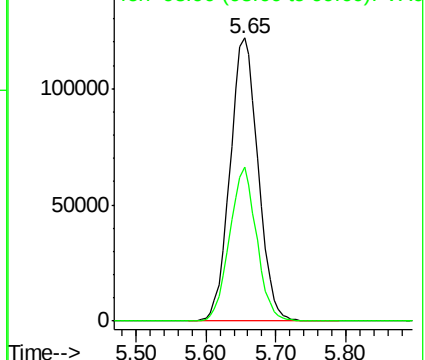
168 100

99 54.1 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: 0.42 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX015140.D

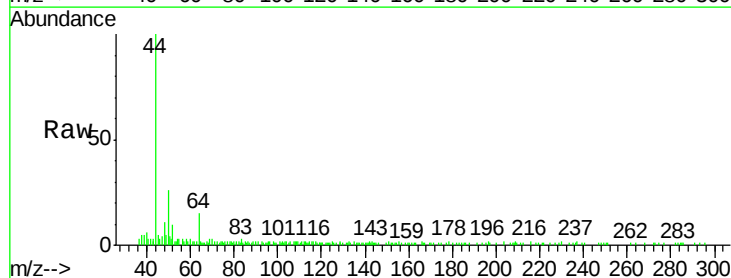
Acq: 09 Mar 2020 14:13

Tgt Ion: 50 Resp: 1773

Ion Ratio Lower Upper

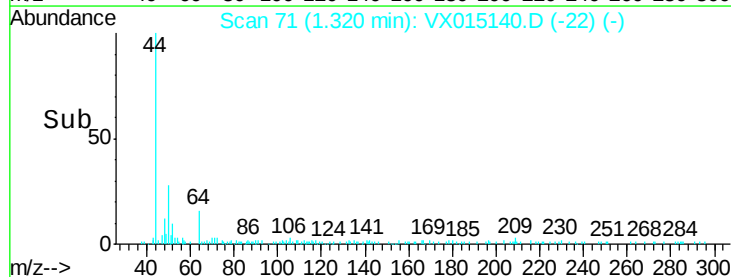
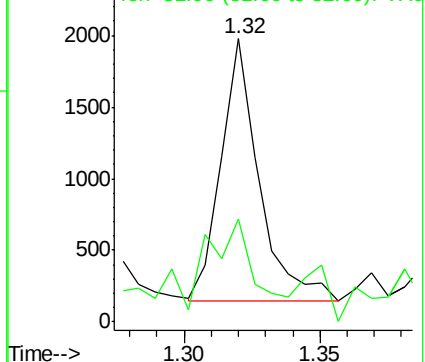
50 100

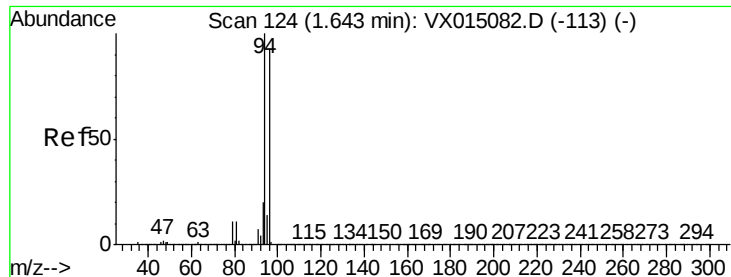
52 39.5 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.26 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.01 min

Lab File: VX015140.D

Acq: 09 Mar 2020 14:13

Instrument :

MSVOA_X

ClientSampleId :

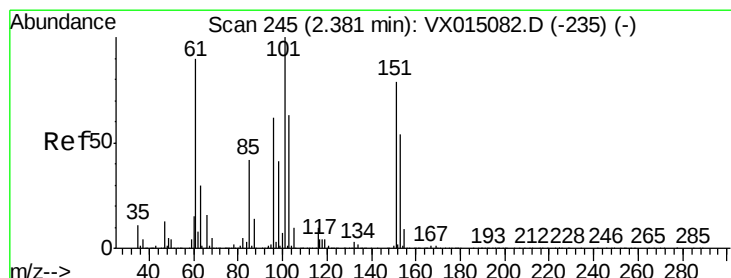
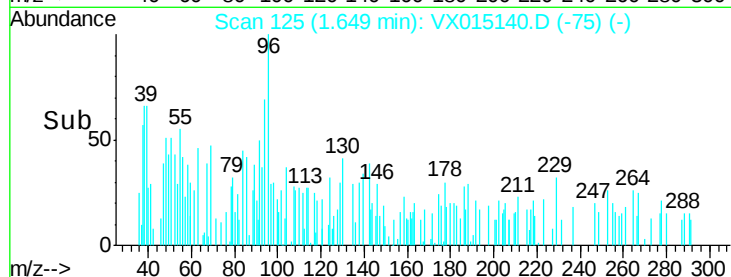
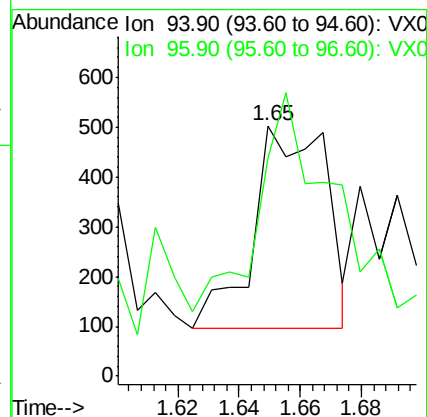
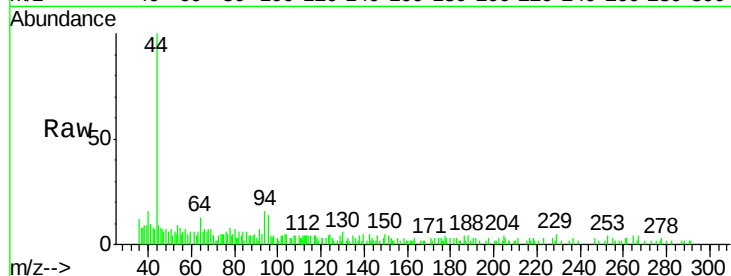
RE108D1-20200304

Tgt Ion: 94 Resp: 669

Ion Ratio Lower Upper

94 100

96 75.9 74.6 111.8



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.49 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.00 min

Lab File: VX015140.D

Acq: 09 Mar 2020 14:13

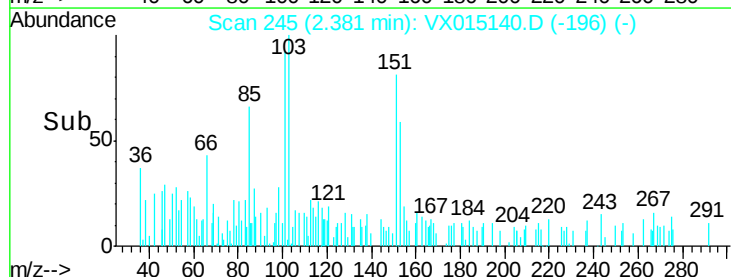
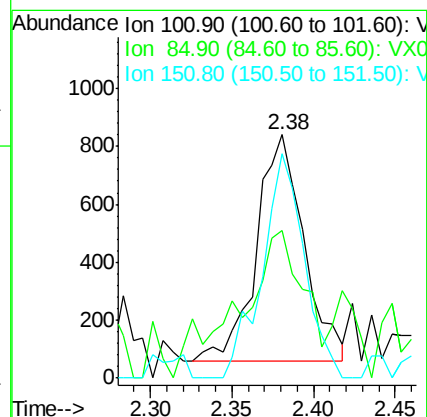
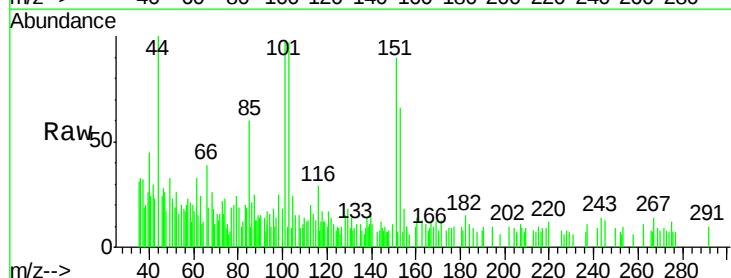
Tgt Ion: 101 Resp: 1570

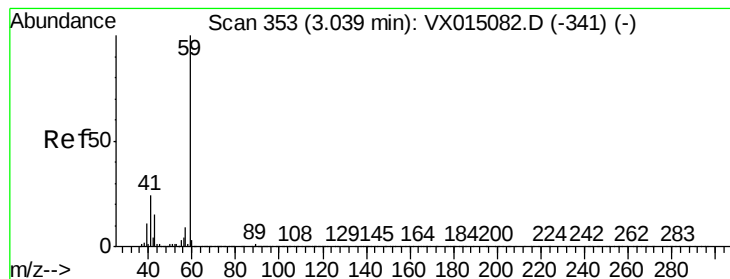
Ion Ratio Lower Upper

101 100

85 52.2 33.7 50.5#

151 87.8 64.0 96.0





#11

Tert butyl alcohol

Concen: 1.20 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.01 min

Lab File: VX015140.D

Acq: 09 Mar 2020 14:13

Instrument :

MSVOA_X

ClientSampleId :

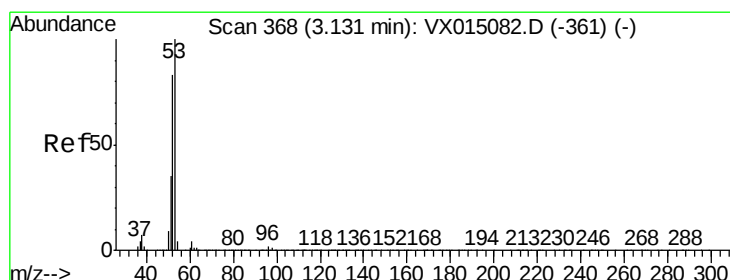
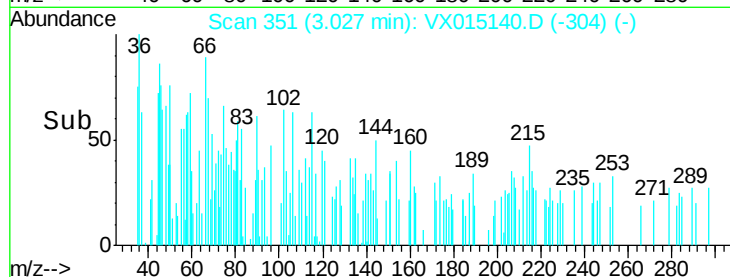
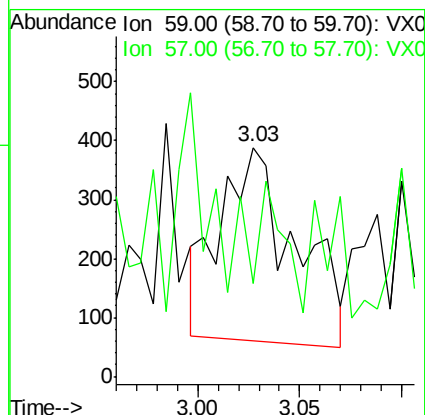
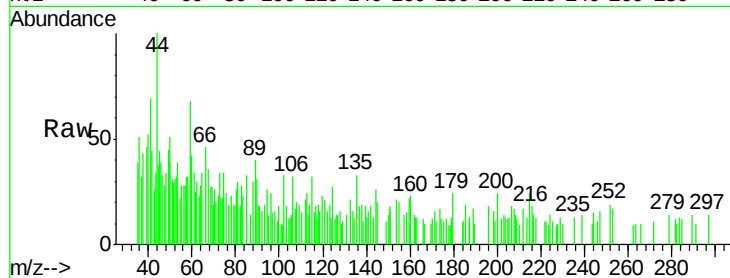
RE108D1-20200304

Tgt Ion: 59 Resp: 837

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#15

Acrylonitrile

Concen: 0.48 ug/l

RT: 3.12 min Scan# 367

Delta R.T. -0.01 min

Lab File: VX015140.D

Acq: 09 Mar 2020 14:13

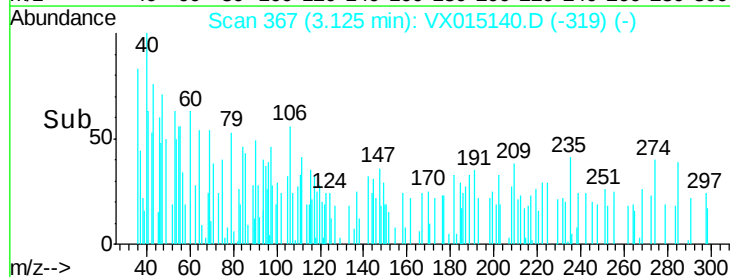
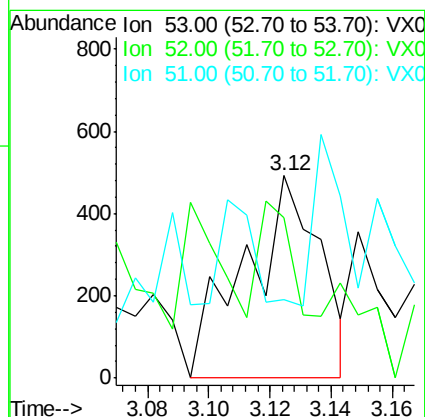
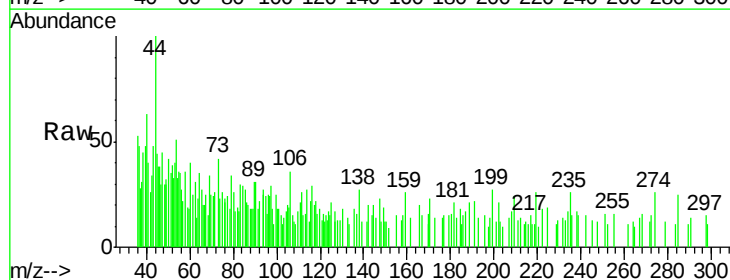
Tgt Ion: 53 Resp: 835

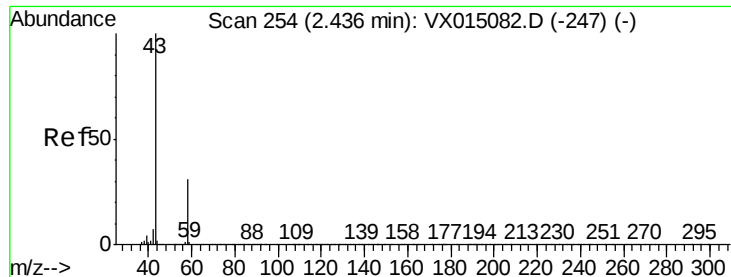
Ion Ratio Lower Upper

53 100

52 49.2 66.6 100.0#

51 46.3 29.0 43.6#





#16

Acetone

Concen: 4.65 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX015140.D

Acq: 09 Mar 2020 14:13

Instrument :

MSVOA_X

ClientSampleId :

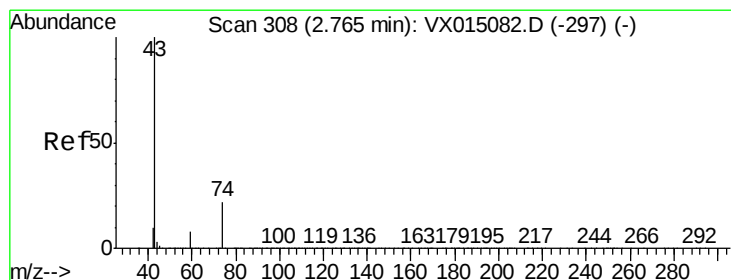
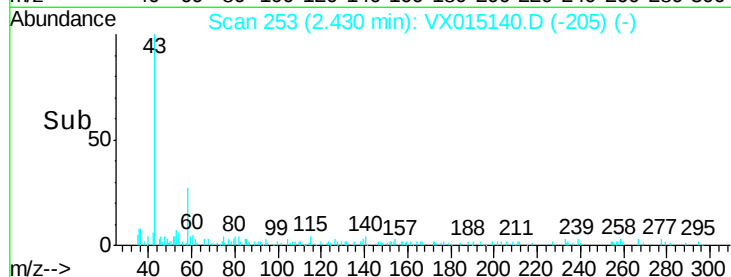
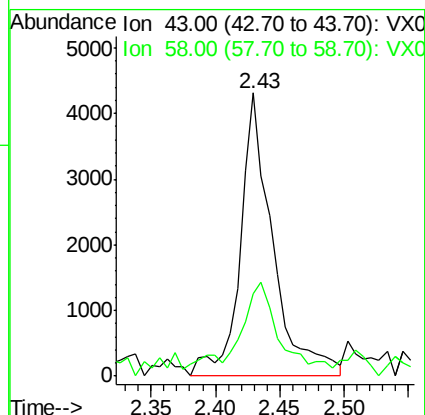
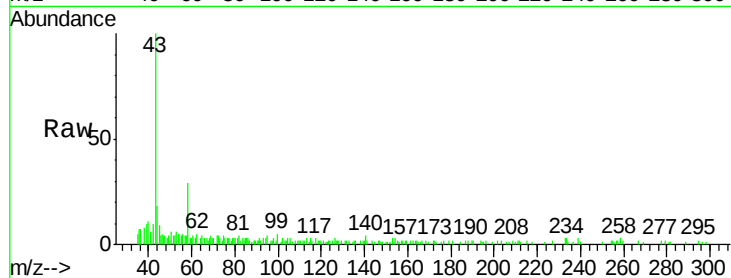
RE108D1-20200304

Tgt Ion: 43 Resp: 7566

Ion Ratio Lower Upper

43 100

58 25.1 24.8 37.2



#18

Methyl Acetate

Concen: 0.32 ug/l

RT: 2.77 min Scan# 309

Delta R.T. 0.01 min

Lab File: VX015140.D

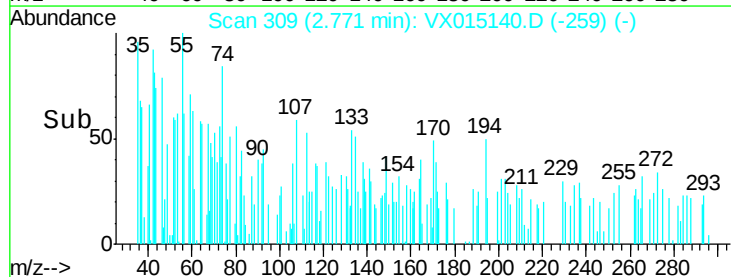
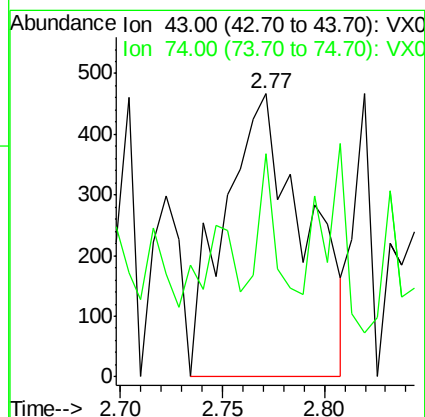
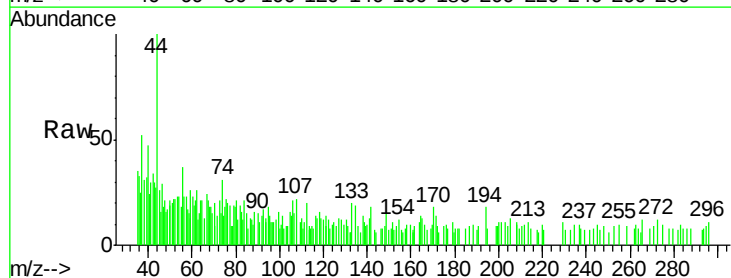
Acq: 09 Mar 2020 14:13

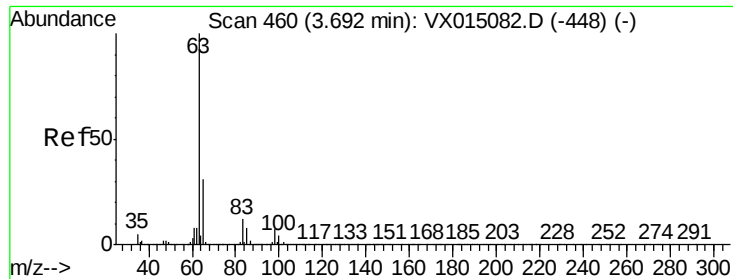
Tgt Ion: 43 Resp: 1269

Ion Ratio Lower Upper

43 100

74 11.1 18.8 28.2#





#24

1,1-Dichloroethane

Concen: 0.21 ug/l

RT: 3.72 min Scan# 464

Delta R.T. 0.02 min

Lab File: VX015140.D

Acq: 09 Mar 2020 14:13

Instrument :

MSVOA_X

ClientSampleId :

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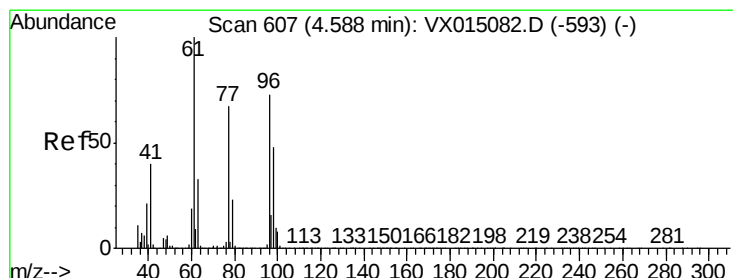
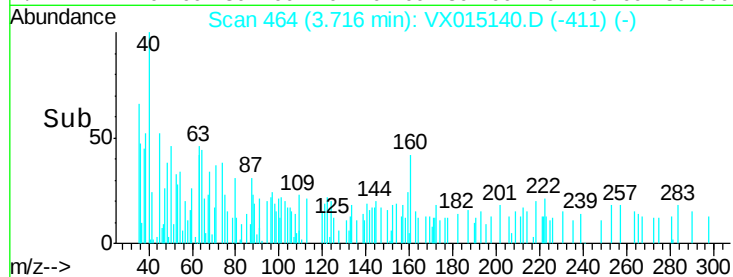
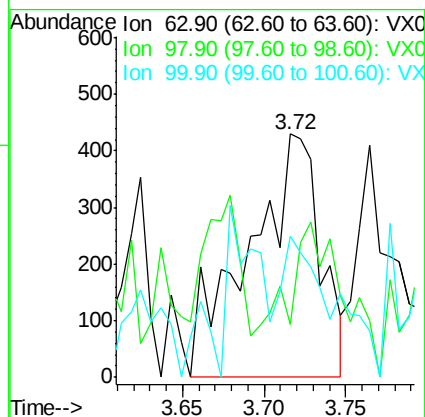
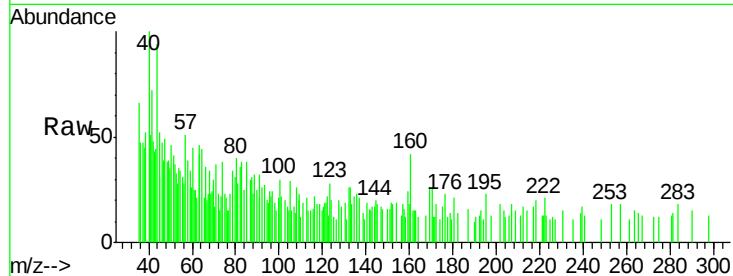
Tgt Ion: 63 Resp: 1302

Ion Ratio Lower Upper

63 100

98 16.5 3.7 11.1#

100 41.6 2.1 6.5#



#27

cis-1,2-Dichloroethene

Concen: 0.36 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.00 min

Lab File: VX015140.D

Acq: 09 Mar 2020 14:13

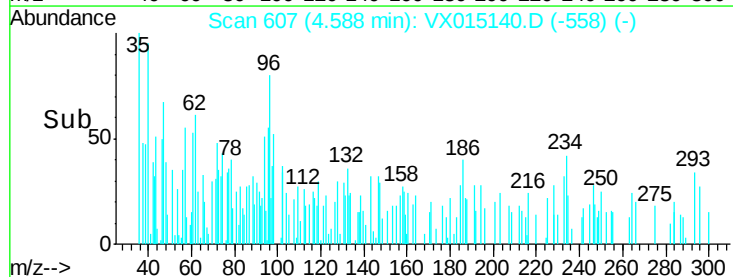
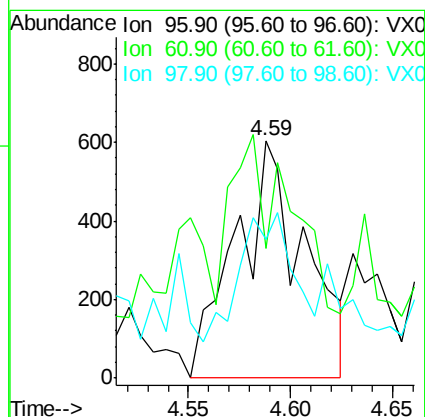
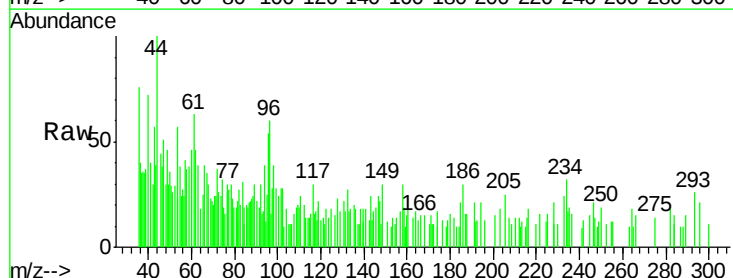
Tgt Ion: 96 Resp: 1403

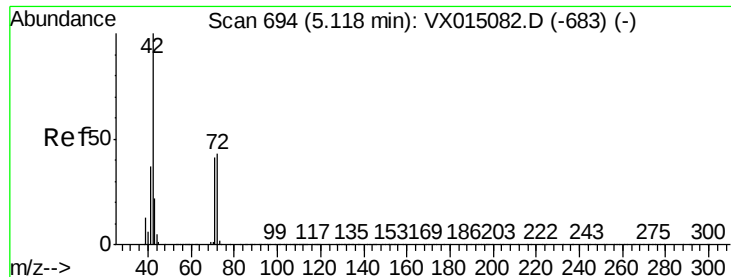
Ion Ratio Lower Upper

96 100

61 32.0 0.0 286.8

98 42.2 0.0 128.4





#29

Tetrahydrofuran

Concen: 0.29 ug/l

RT: 5.18 min Scan# 704

Delta R.T. 0.06 min

Lab File: VX015140.D

Acq: 09 Mar 2020 14:13

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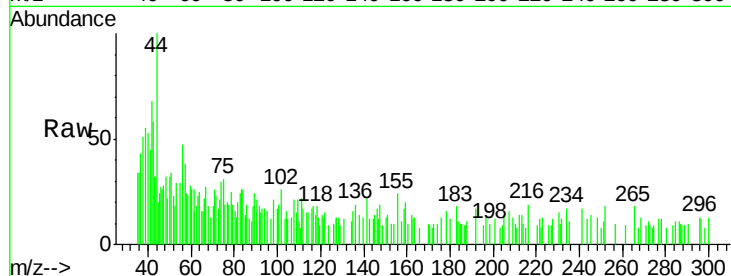
Tgt Ion: 42 Resp: 452

Ion Ratio Lower Upper

42 100

72 43.6 36.4 54.6

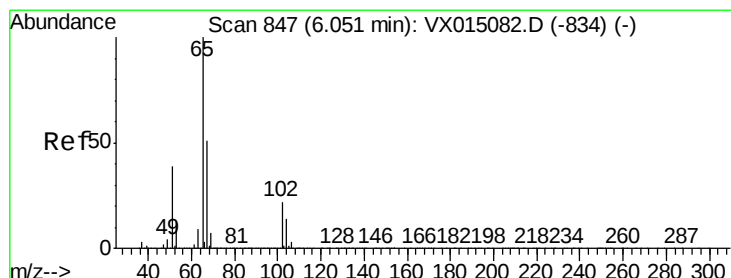
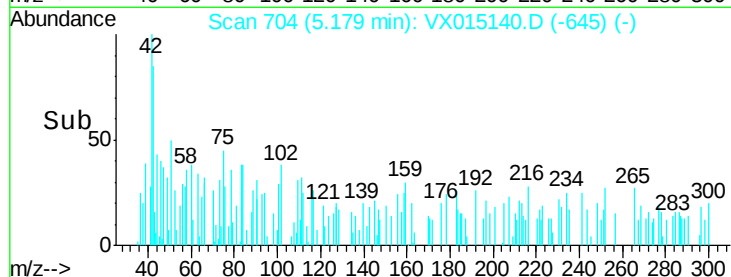
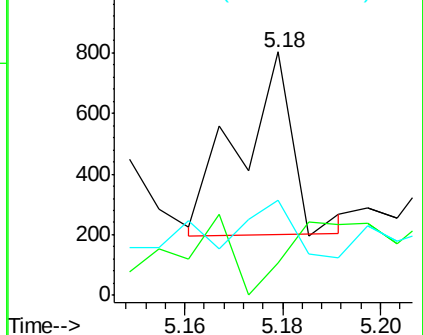
71 43.8 33.3 49.9



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 53.27 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX015140.D

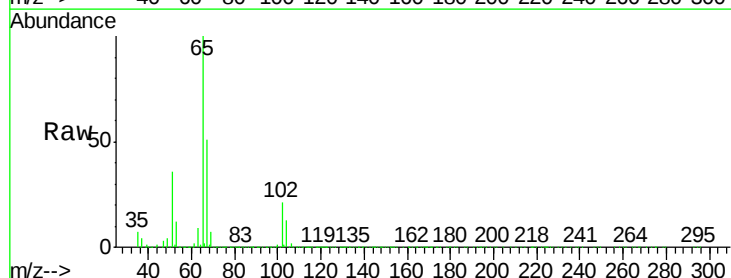
Acq: 09 Mar 2020 14:13

Tgt Ion: 65 Resp: 214202

Ion Ratio Lower Upper

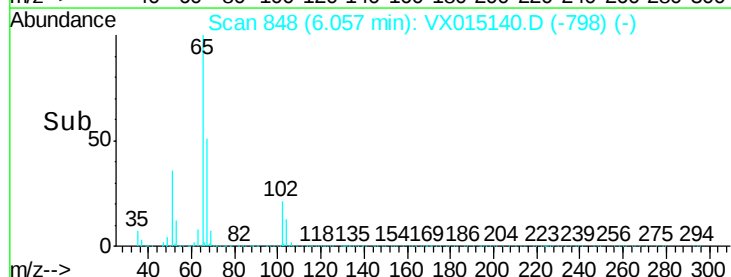
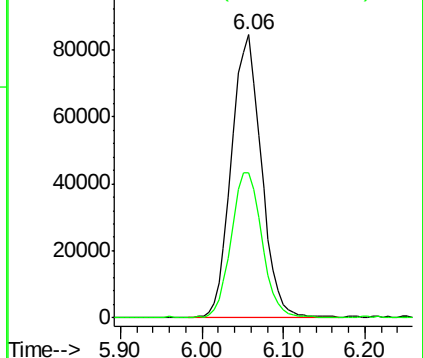
65 100

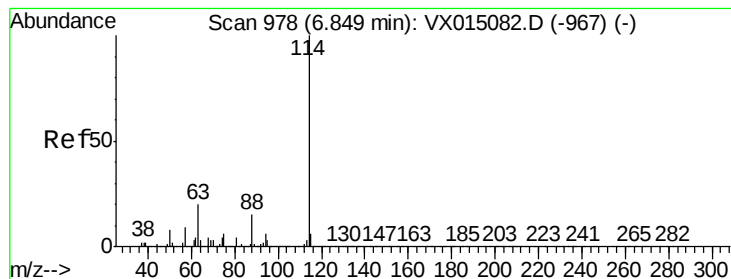
67 52.4 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX015140.D

Acq: 09 Mar 2020 14:13

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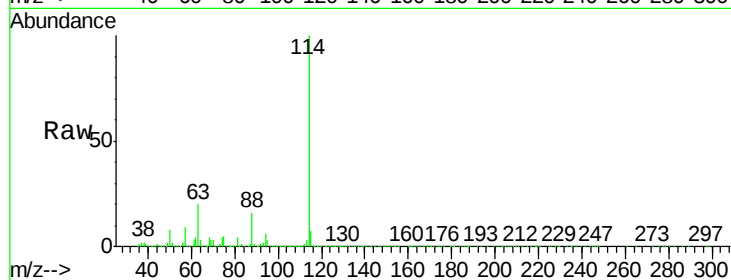
Tgt Ion:114 Resp: 561547

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.0

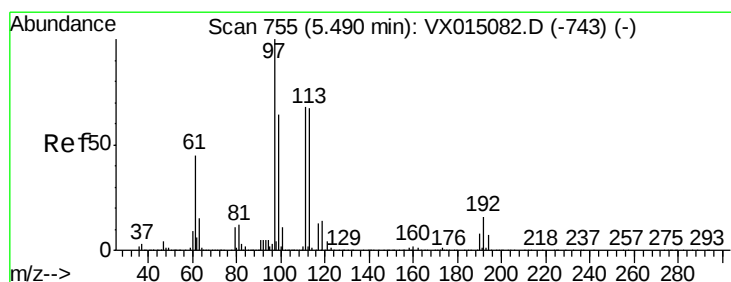
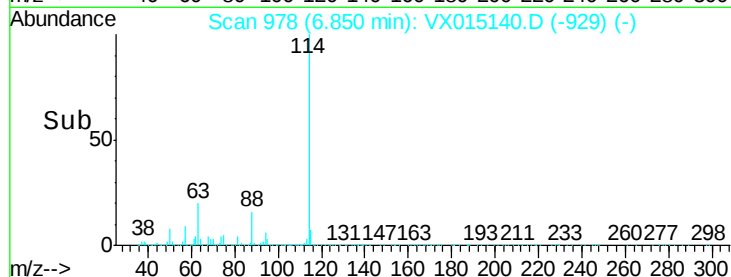
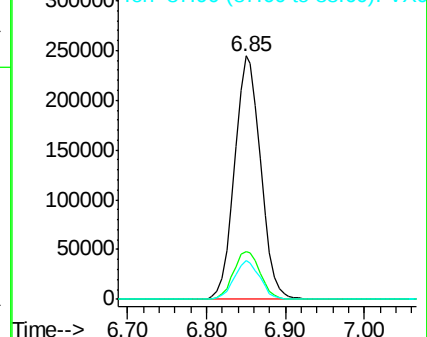
88 15.7 0.0 30.6



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: 49.58 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX015140.D

Acq: 09 Mar 2020 14:13

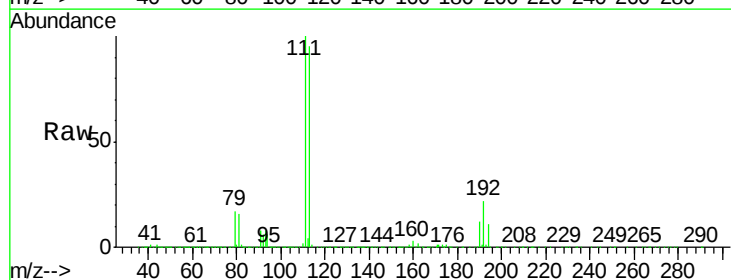
Tgt Ion:113 Resp: 175646

Ion Ratio Lower Upper

113 100

111 103.0 82.6 123.8

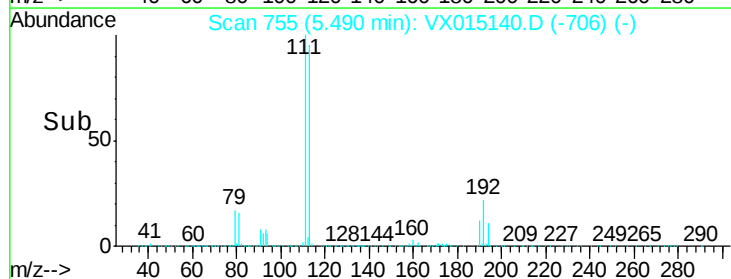
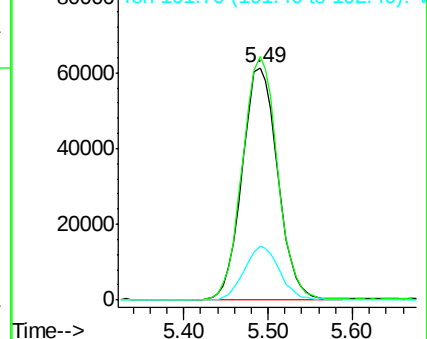
192 22.6 18.6 28.0

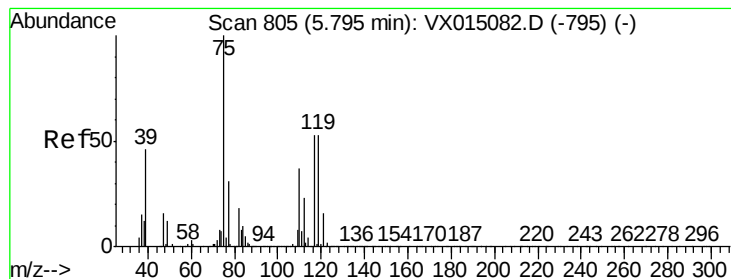


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.71 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.15 min

Lab File: VX015140.D

Acq: 09 Mar 2020 14:13

Instrument :

MSVOA_X

ClientSampleId :

RE108D1-20200304

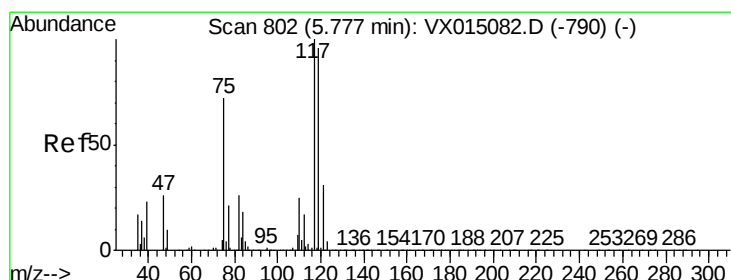
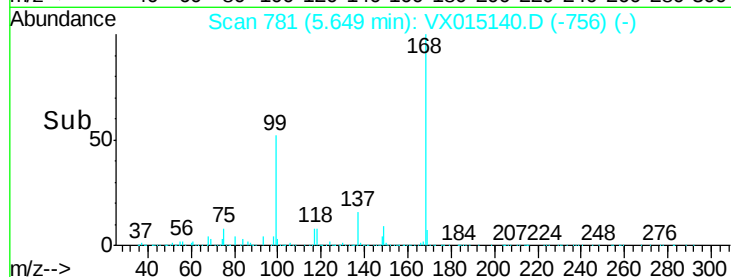
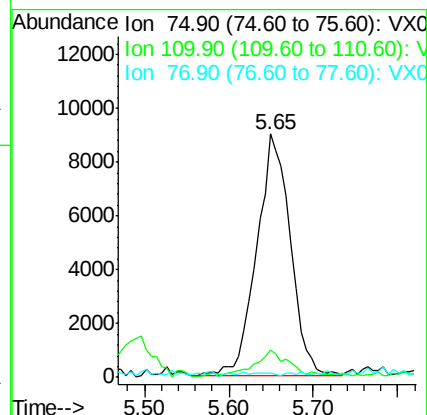
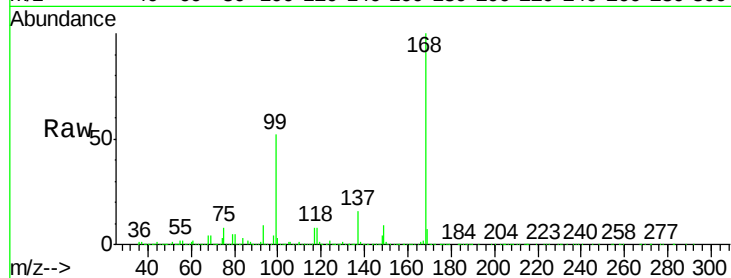
Tgt Ion: 75 Resp: 24461

Ion Ratio Lower Upper

75 100

110 12.7 17.9 53.8#

77 0.4 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 0.21 ug/l

RT: 5.78 min Scan# 802

Delta R.T. 0.00 min

Lab File: VX015140.D

Acq: 09 Mar 2020 14:13

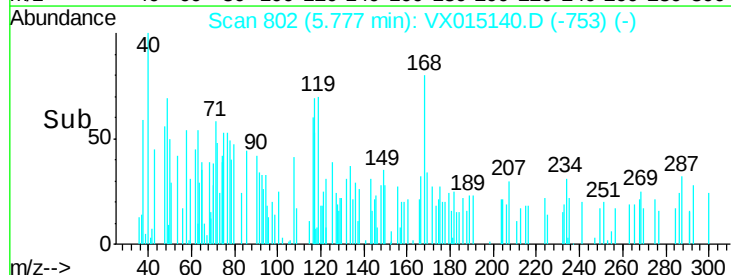
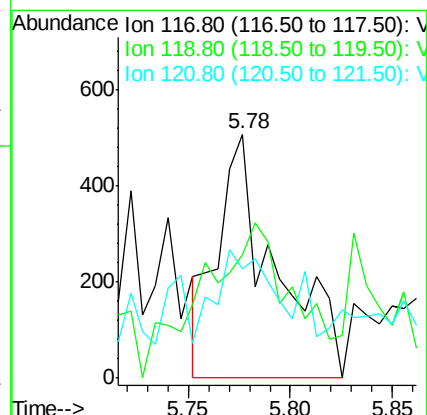
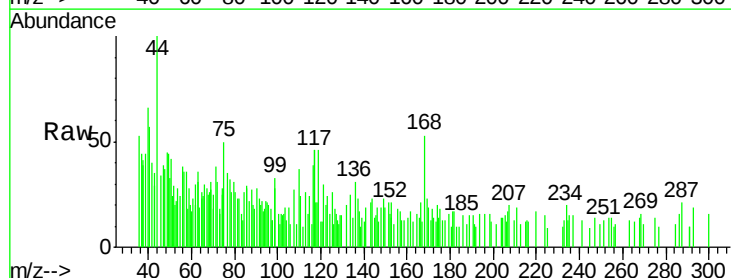
Tgt Ion: 117 Resp: 1005

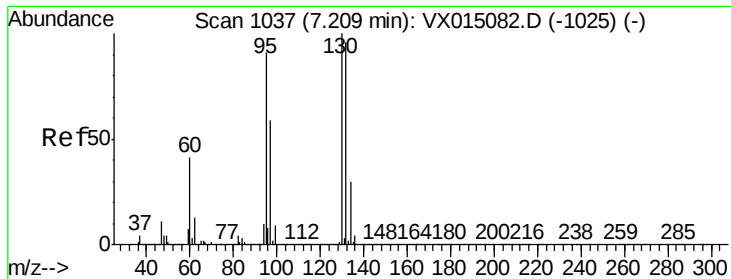
Ion Ratio Lower Upper

117 100

119 32.6 76.9 115.3#

121 30.8 24.6 37.0





#44

Trichloroethene

Concen: 30.22 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX015140.D

Acq: 09 Mar 2020 14:13

Instrument :

MSVOA_X

ClientSampleId :

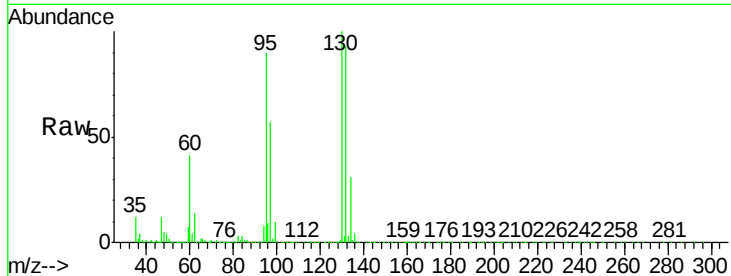
RE108D1-20200304

Tgt Ion: 130 Resp: 129622

Ion Ratio Lower Upper

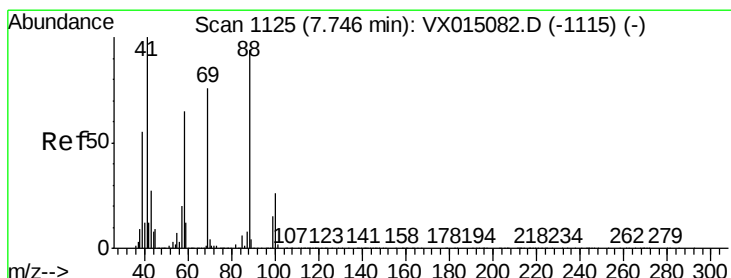
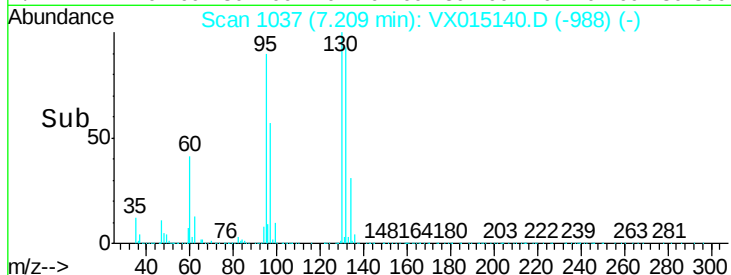
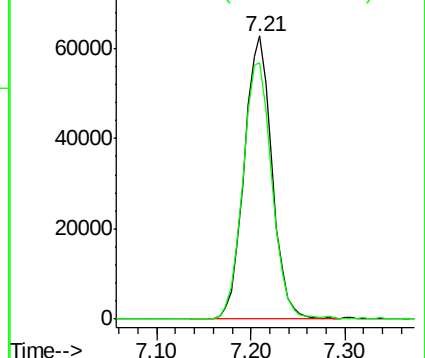
130 100

95 90.2 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: 15.43 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.00 min

Lab File: VX015140.D

Acq: 09 Mar 2020 14:13

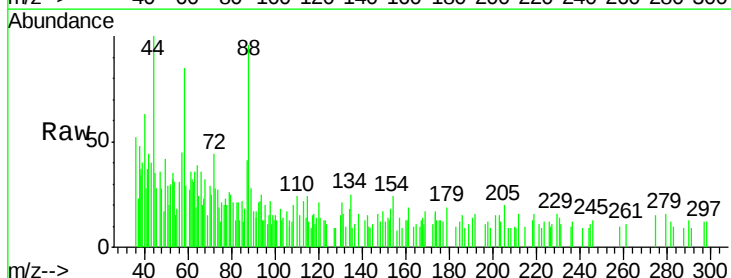
Tgt Ion: 88 Resp: 1438

Ion Ratio Lower Upper

88 100

43 37.0 27.0 40.4

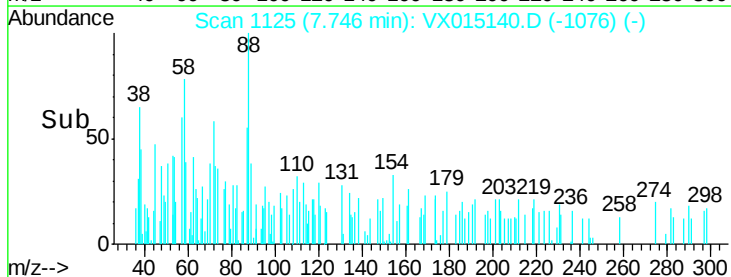
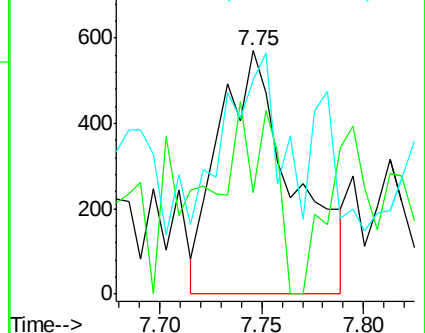
58 68.3 55.6 83.4

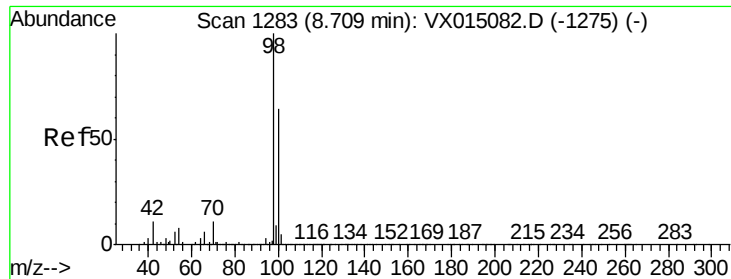


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.56 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX015140.D

Acq: 09 Mar 2020 14:13

Instrument :

MSVOA_X

ClientSampleId :

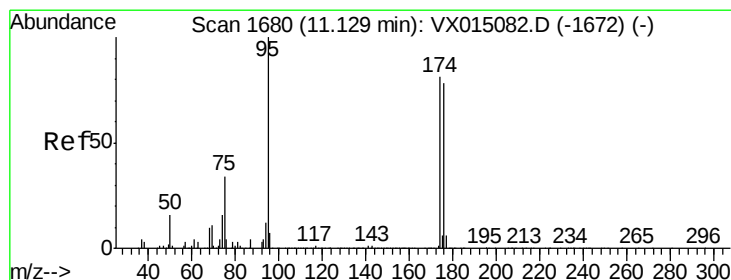
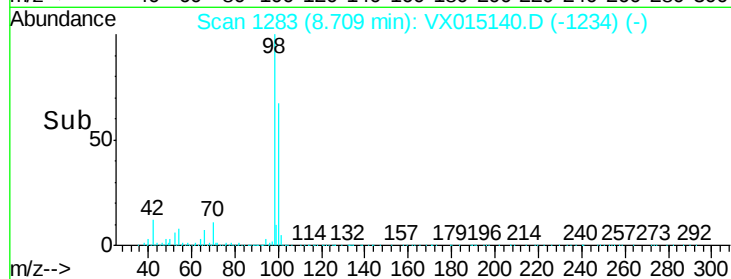
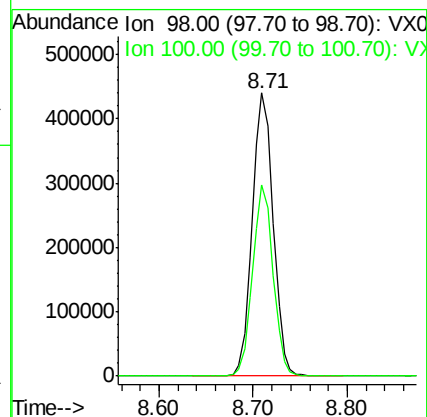
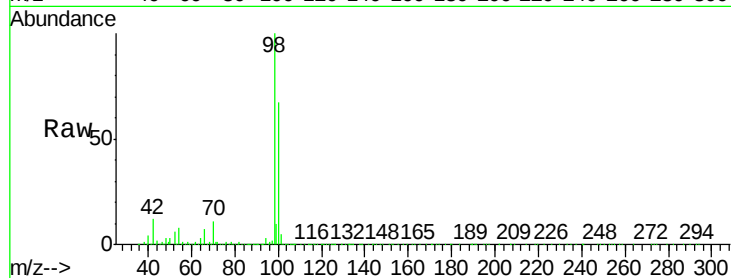
RE108D1-20200304

Tgt Ion: 98 Resp: 681377

Ion Ratio Lower Upper

98 100

100 66.1 52.4 78.6



#62

4-Bromofluorobenzene

Concen: 50.82 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VX015140.D

Acq: 09 Mar 2020 14:13

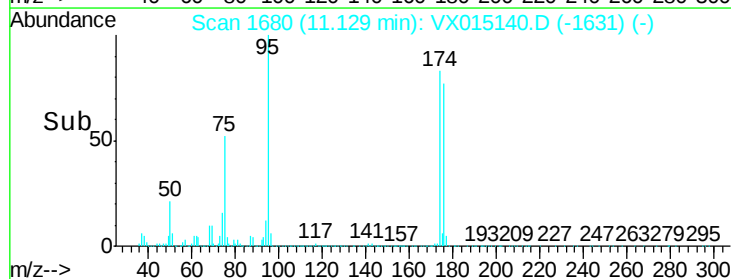
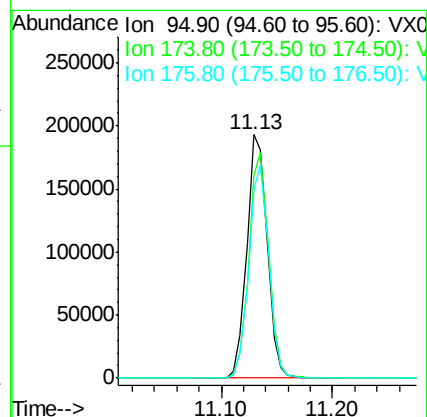
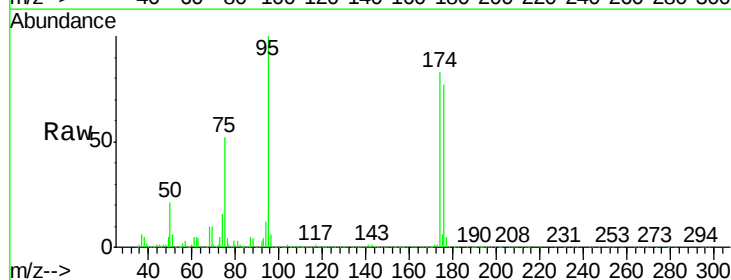
Tgt Ion: 95 Resp: 244280

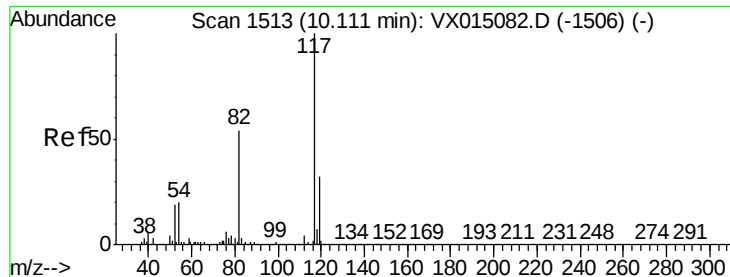
Ion Ratio Lower Upper

95 100

174 90.5 0.0 177.6

176 86.0 0.0 170.2

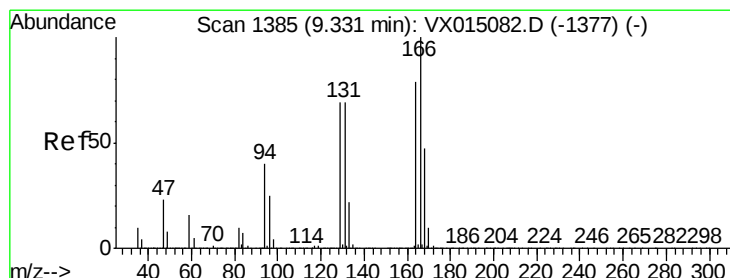
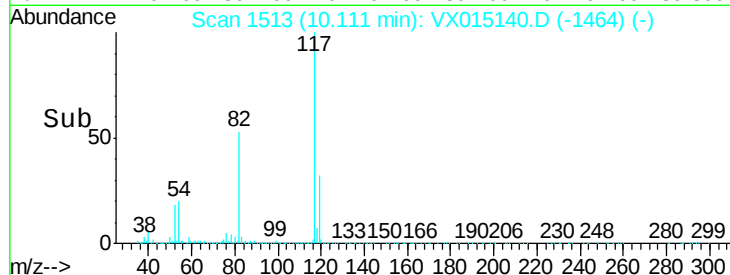
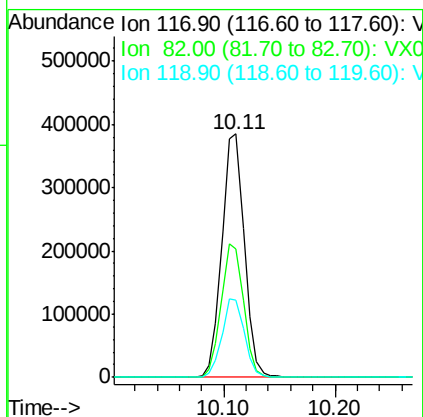
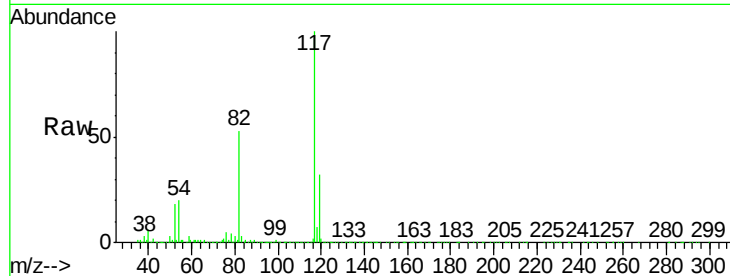




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX015140.D
Acq: 09 Mar 2020 14:13

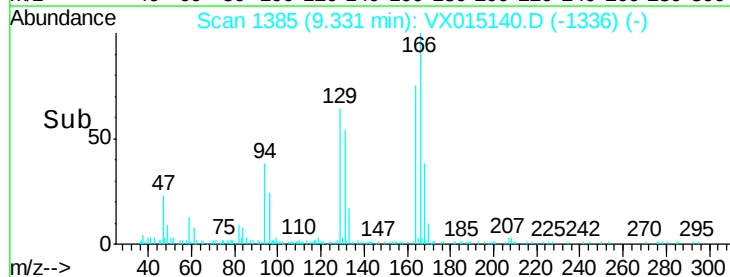
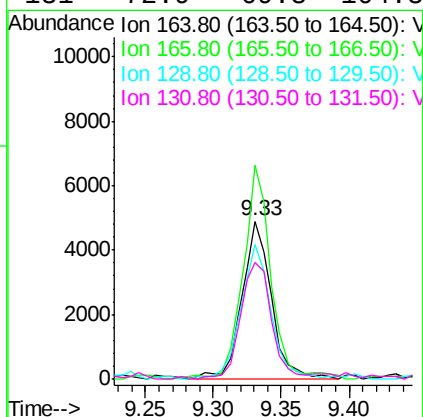
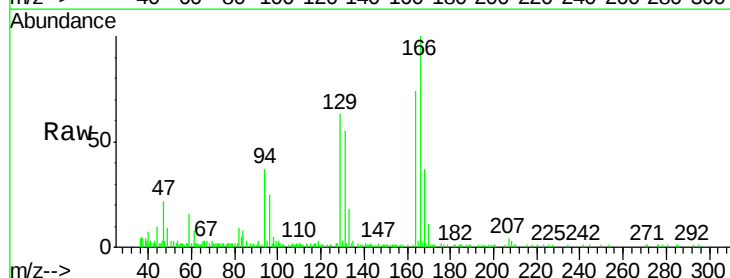
Instrument :
MSVOA_X
ClientSampleId :
RE108D1-20200304

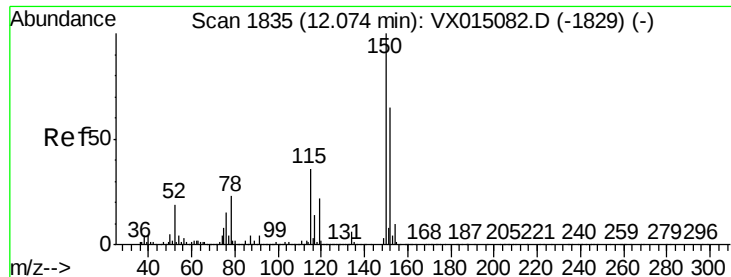
Tgt Ion:117 Resp: 538488
Ion Ratio Lower Upper
117 100
82 52.7 43.3 64.9
119 31.9 25.8 38.8



#64
Tetrachloroethene
Concen: 1.66 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX015140.D
Acq: 09 Mar 2020 14:13

Tgt Ion:164 Resp: 7386
Ion Ratio Lower Upper
164 100
166 133.8 101.1 151.7
129 85.5 69.4 104.0
131 72.9 69.8 104.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX015140.D

Acq: 09 Mar 2020 14:13

Instrument :

MSVOA_X

ClientSampleId :

RE108D1-20200304

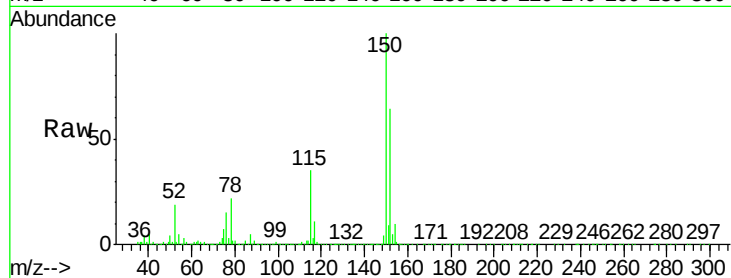
Tgt Ion:152 Resp: 266698

Ion Ratio Lower Upper

152 100

115 56.2 38.2 114.6

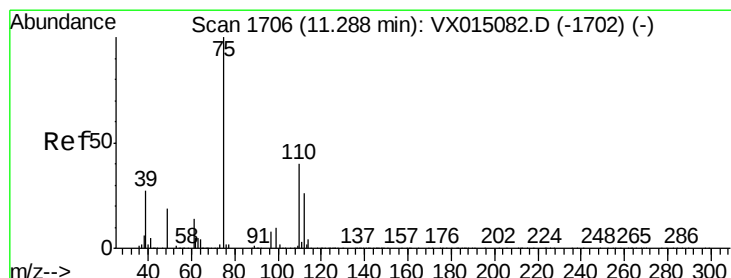
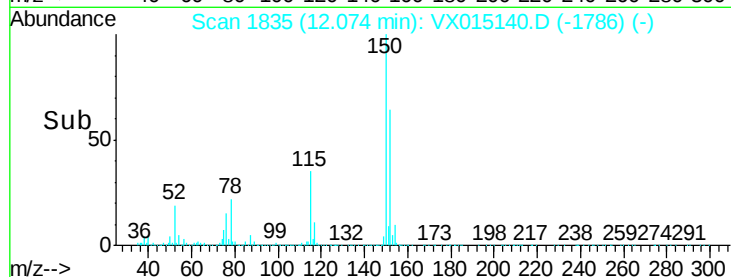
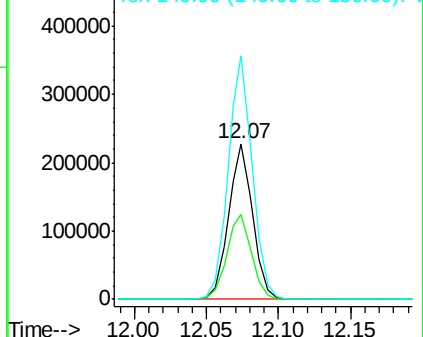
150 157.3 0.0 343.8



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: 23.57 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX015140.D

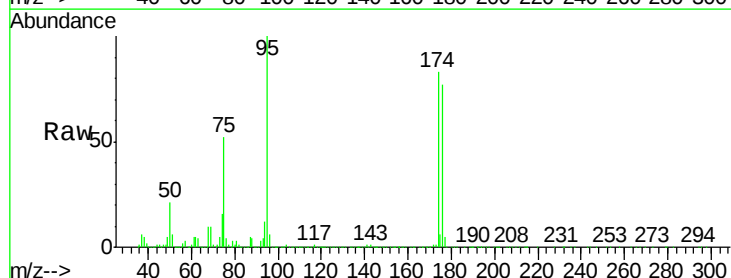
Acq: 09 Mar 2020 14:13

Tgt Ion: 75 Resp: 125386

Ion Ratio Lower Upper

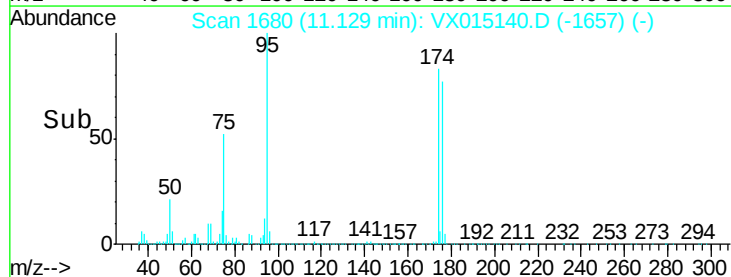
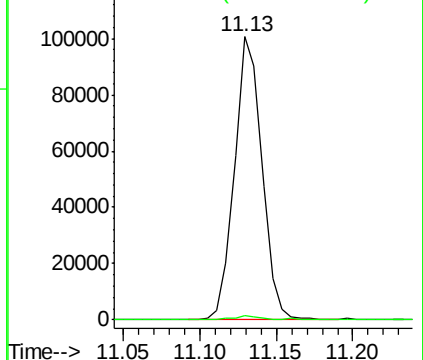
75 100

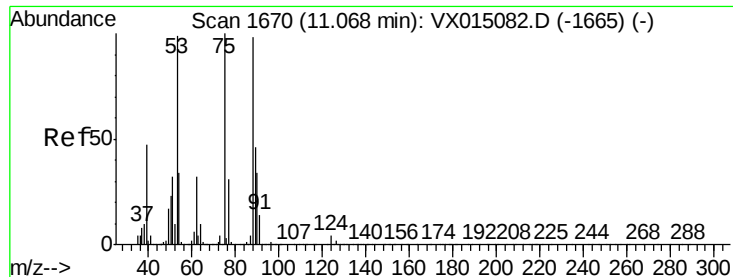
77 1.4 22.6 67.8#



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: 66.89 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015140.D

Acq: 09 Mar 2020 14:13

Instrument :

MSVOA_X

ClientSampleId :

RE108D1-20200304

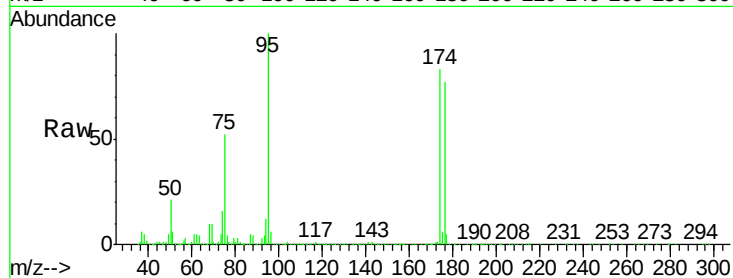
Tgt Ion: 75 Resp: 125386

Ion Ratio Lower Upper

75 100

53 0.3 77.9 116.9#

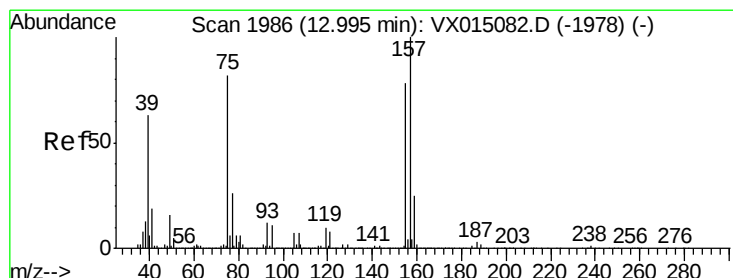
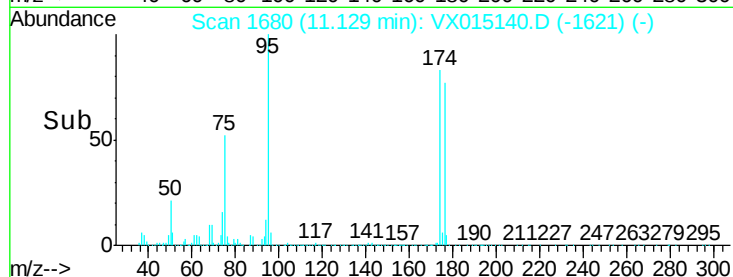
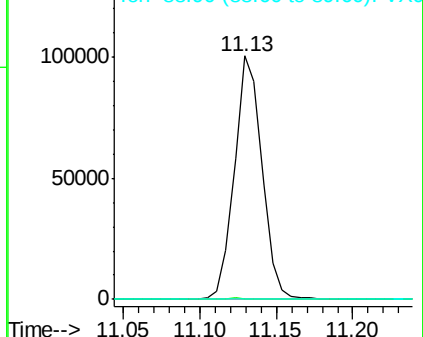
89 0.0 36.2 54.2#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.21 ug/l

RT: 12.99 min Scan# 1985

Delta R.T. -0.01 min

Lab File: VX015140.D

Acq: 09 Mar 2020 14:13

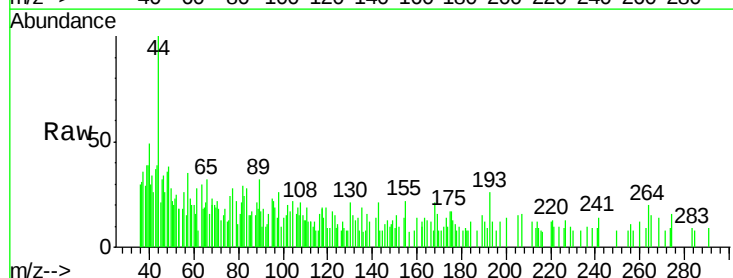
Tgt Ion: 75 Resp: 240

Ion Ratio Lower Upper

75 100

155 130.8 46.6 139.7

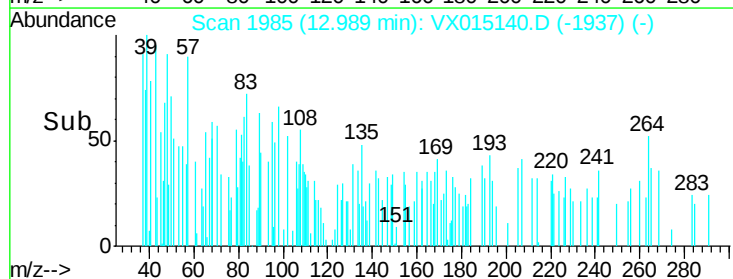
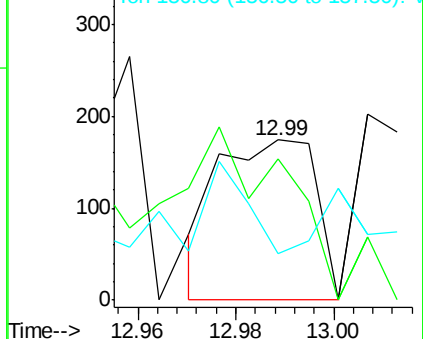
157 30.4 59.2 177.5#

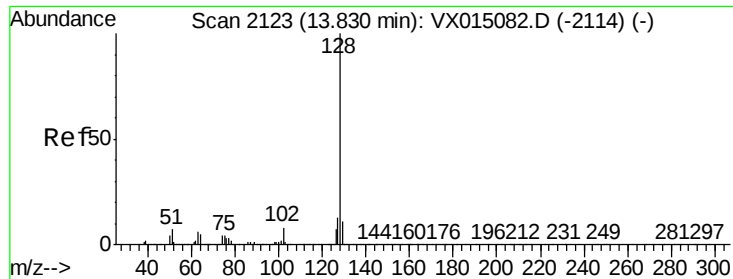


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95
Naphthalene
Concen: 1.46 ug/l
RT: 13.84 min Scan# 2124
Delta R.T. 0.01 min
Lab File: VX015140.D
Acq: 09 Mar 2020 14:13

Instrument :
MSVOA_X
ClientSampleId :
RE108D1-20200304

Tgt Ion	Ratio	Lower	Upper
128	100		
127	42.8	10.3	15.5#
129	31.1	8.6	13.0#

