

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112619\
 Data File : VX013622.D
 Acq On : 27 Nov 2019 01:09
 Operator : JC/SP
 Sample : K5962-03DL 100X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 15BR-20191120DL

Quant Time: Nov 27 03:47:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	688518	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1091147	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	980699	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	439733	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	394033	49.30	ug/l	0.00
Spiked Amount			Recovery	=	98.60%	
35) Dibromofluoromethane	5.49	113	326001	48.33	ug/l	0.00
Spiked Amount			Recovery	=	96.66%	
50) Toluene-d8	8.71	98	1309808	49.84	ug/l	0.00
Spiked Amount			Recovery	=	99.68%	
62) 4-Bromofluorobenzene	11.14	95	438569	46.28	ug/l	0.00
Spiked Amount			Recovery	=	92.56%	

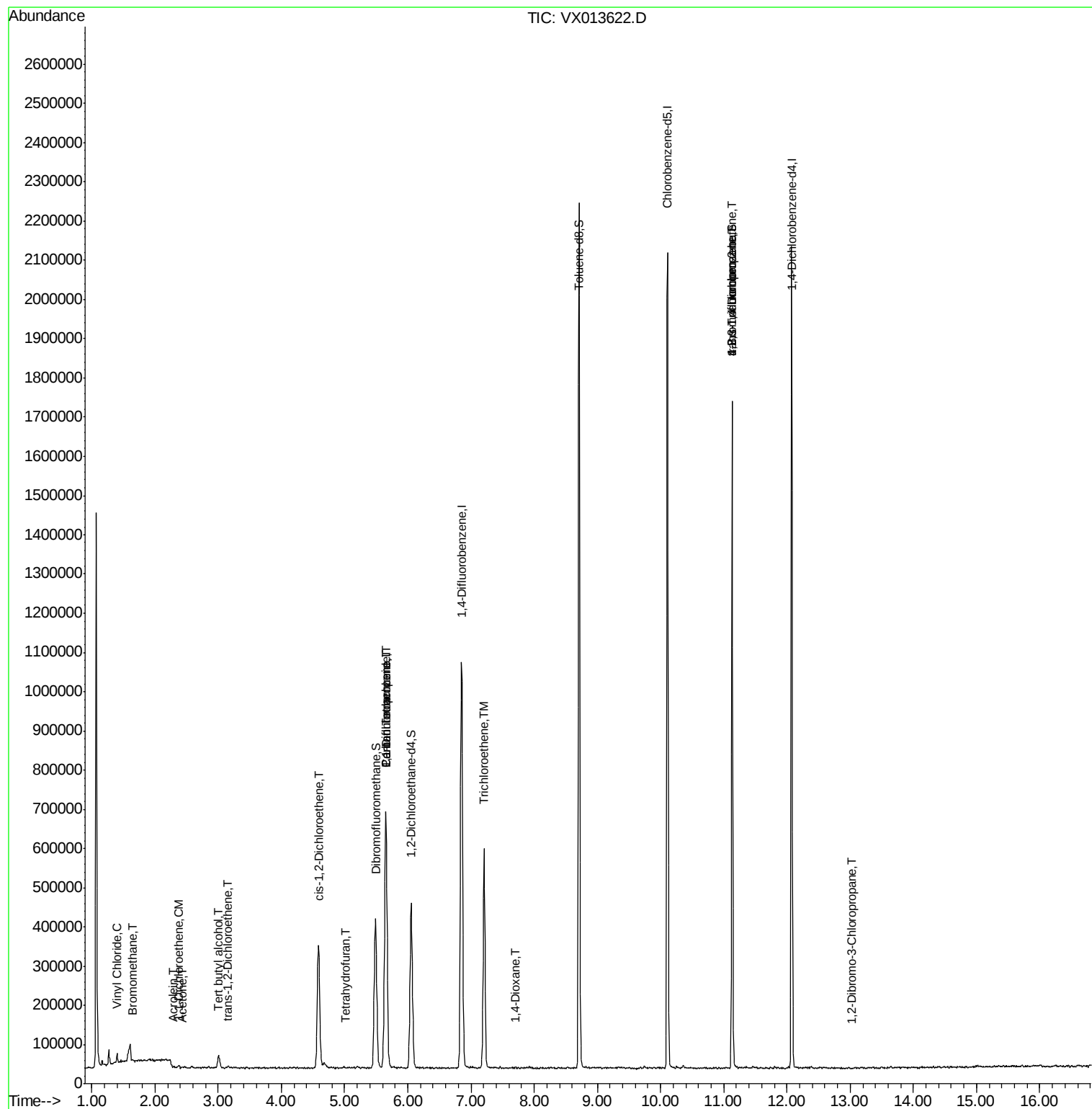
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	14215	1.469	ug/l	97
5) Bromomethane	1.65	94	1916	0.295	ug/l #	45
11) Tert butyl alcohol	3.01	59	22888	11.602	ug/l #	86
12) 1,1-Dichloroethene	2.37	96	1782	0.272	ug/l #	60
13) Acrolein	2.28	56	429	6.321	ug/l #	75
16) Acetone	2.44	43	1868	0.473	ug/l	90
21) trans-1,2-Dichloroethene	3.16	96	2335	0.327	ug/l #	81
27) cis-1,2-Dichloroethene	4.59	96	201906	24.630	ug/l	90
29) Tetrahydrofuran	5.01	42	1078	0.298	ug/l	89
36) 1,1-Dichloropropene	5.65	75	45928	4.637	ug/l #	51
38) Carbon Tetrachloride	5.65	117	60450	6.619	ug/l #	14
44) Trichloroethene	7.21	130	222981	26.933	ug/l	97
49) 1,4-Dioxane	7.70	88	429	2.156	ug/l #	51
76) 1,2,3-Trichloropropane	11.14	75	213440	21.581	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	213440	59.041	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.01	75	808	0.347	ug/l #	23

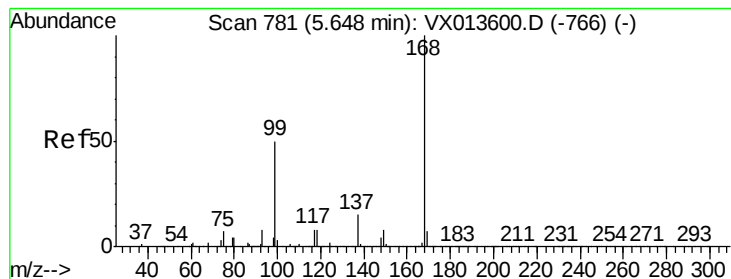
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013622.D

Acq: 27 Nov 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

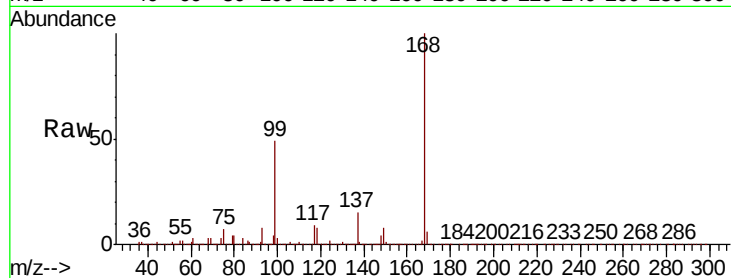
15BR-20191120DL

Tot Ion:168 Resp: 688518

Ion Ratio Lower Upper

168 100

99 48.7 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

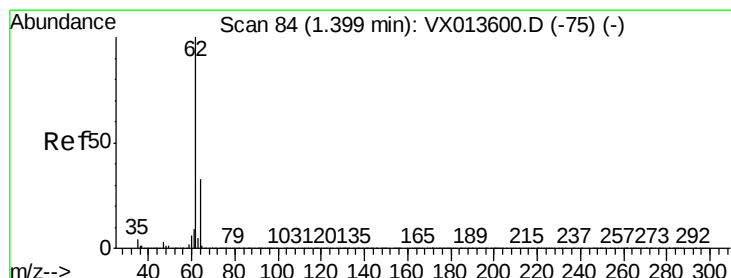
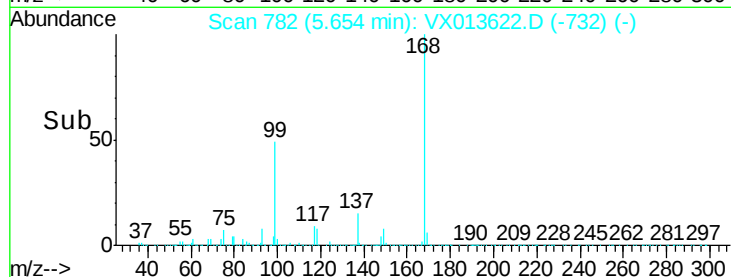
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 1.469 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013622.D

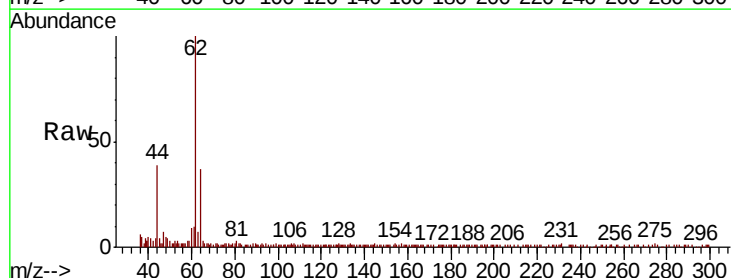
Acq: 27 Nov 2019 01:09

Tgt Ion: 62 Resp: 14215

Ion Ratio Lower Upper

62 100

64 33.9 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

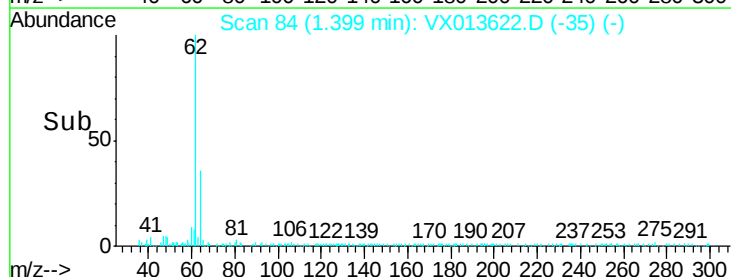
15000

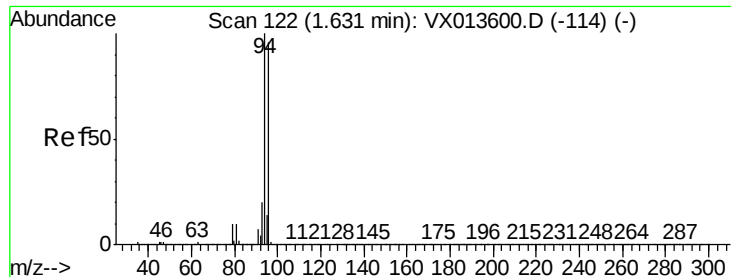
10000

5000

0

Time--> 1.35 1.40 1.45





#5

Bromomethane

Concen: 0.295 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX013622.D

Acq: 27 Nov 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

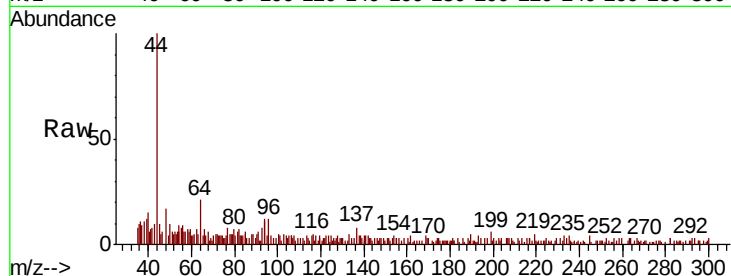
15BR-20191120DL

Tot Ion: 94 Resp: 1916

Ion Ratio Lower Upper

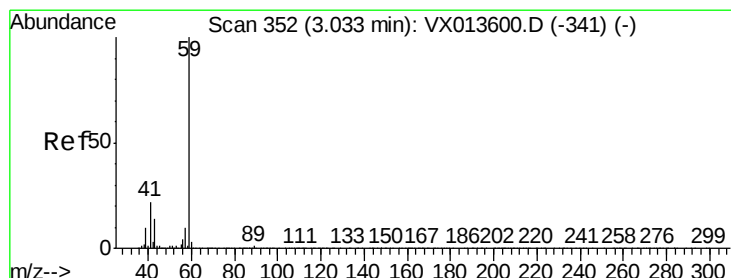
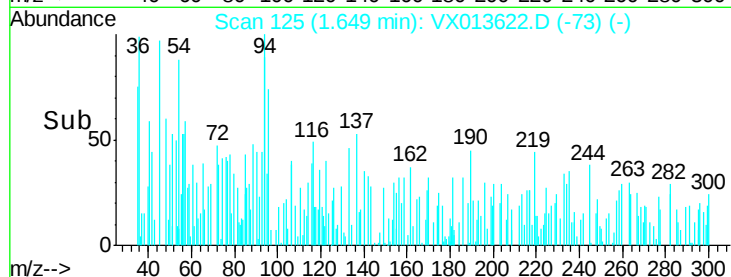
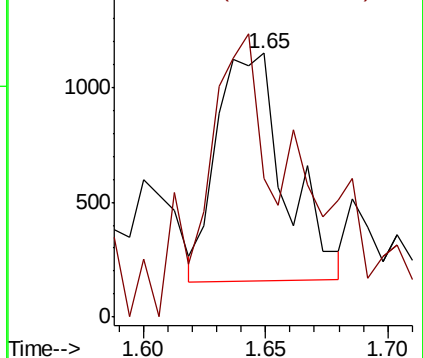
94 100

96 42.4 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: 11.602 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.02 min

Lab File: VX013622.D

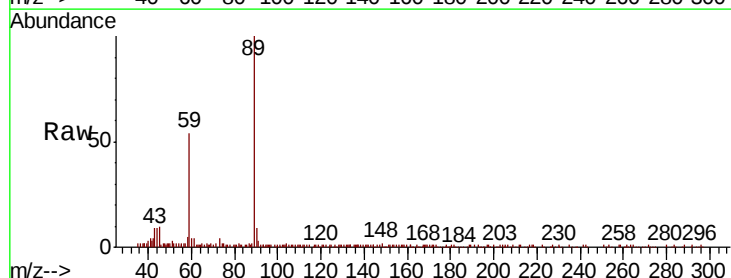
Acq: 27 Nov 2019 01:09

Tgt Ion: 59 Resp: 22888

Ion Ratio Lower Upper

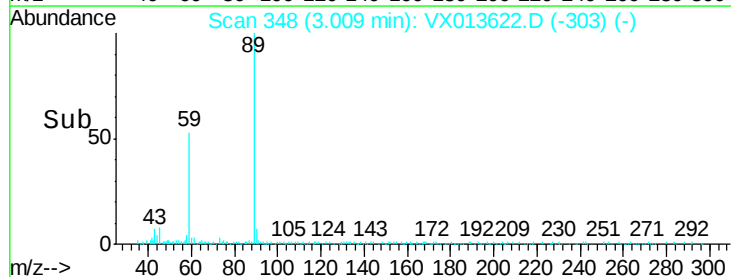
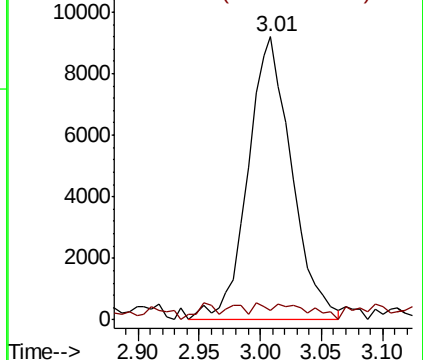
59 100

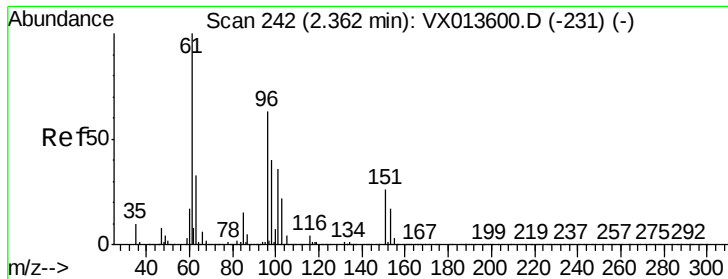
57 4.7 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.272 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX013622.D

Acq: 27 Nov 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

15BR-20191120DL

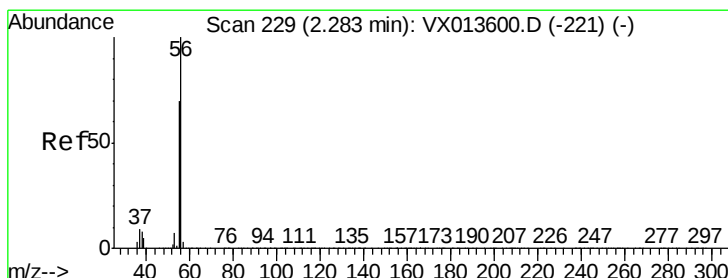
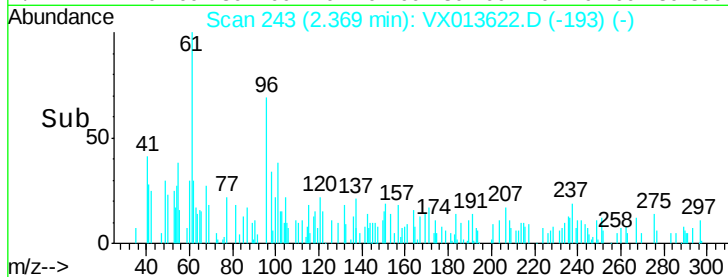
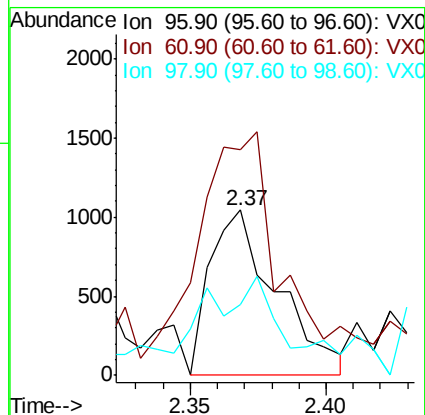
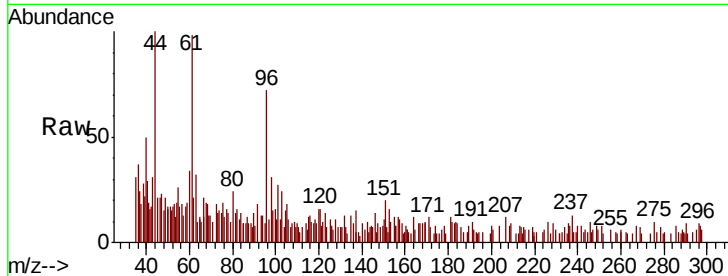
Tot Ion: 96 Resp: 1782

Ion Ratio Lower Upper

96 100

61 107.3 126.6 190.0#

98 30.6 50.6 76.0#



#13

Acrolein

Concen: 6.321 ug/l

RT: 2.28 min Scan# 229

Delta R.T. 0.00 min

Lab File: VX013622.D

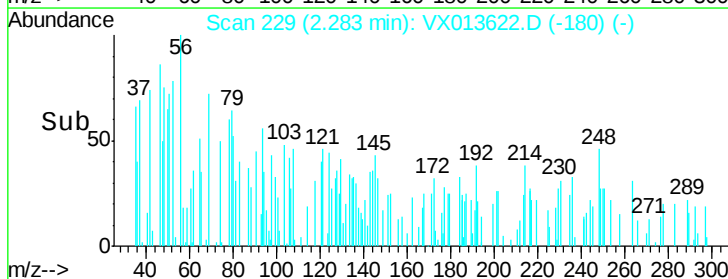
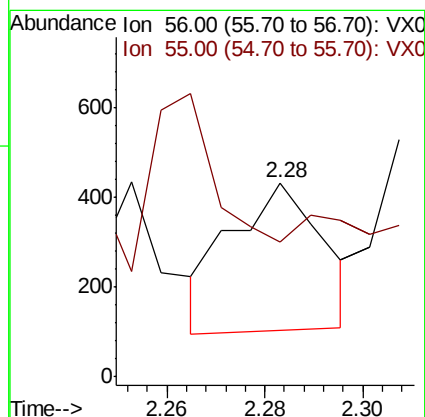
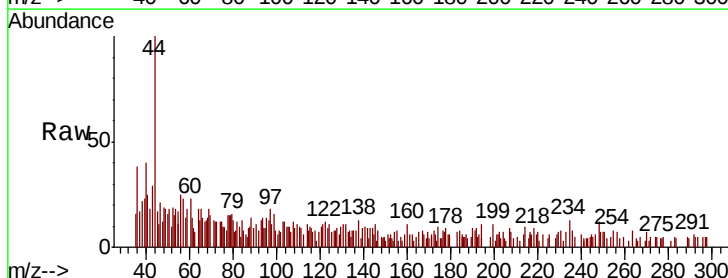
Acq: 27 Nov 2019 01:09

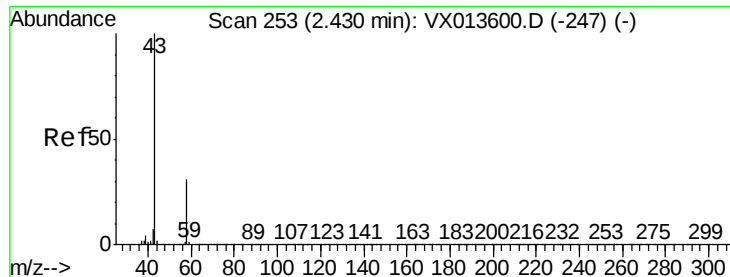
Tgt Ion: 56 Resp: 429

Ion Ratio Lower Upper

56 100

55 90.9 56.2 84.4#





#16

Acetone

Concen: 0.473 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX013622.D

Acq: 27 Nov 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

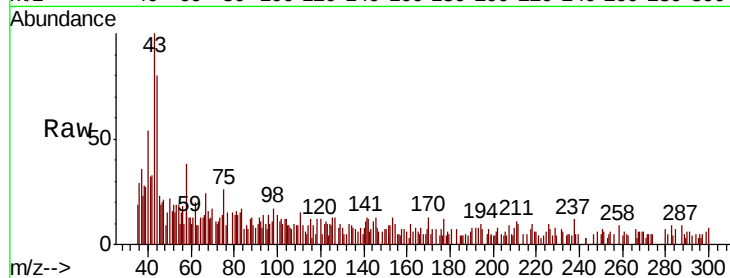
15BR-20191120DL

Tot Ion: 43 Resp: 1868

Ion Ratio Lower Upper

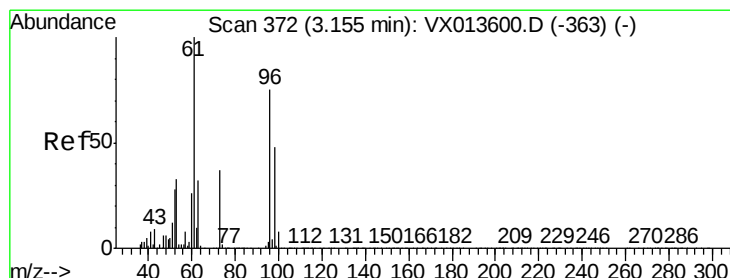
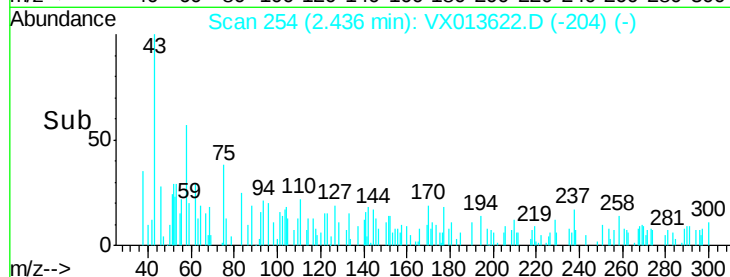
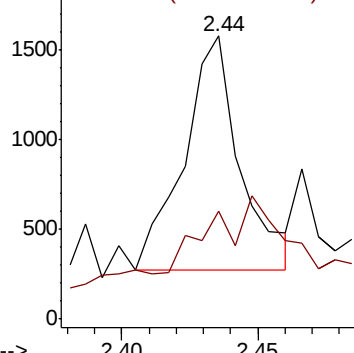
43 100

58 25.3 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#21

trans-1,2-Dichloroethene

Concen: 0.327 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX013622.D

Acq: 27 Nov 2019 01:09

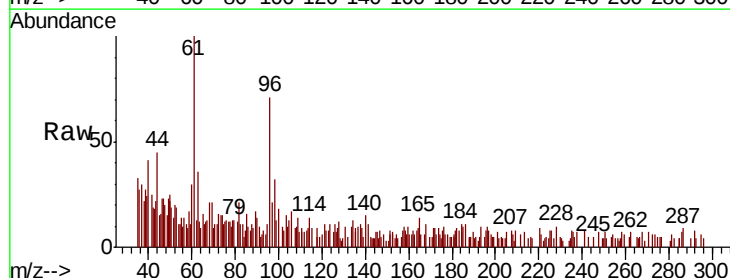
Tgt Ion: 96 Resp: 2335

Ion Ratio Lower Upper

96 100

61 149.4 107.2 160.8

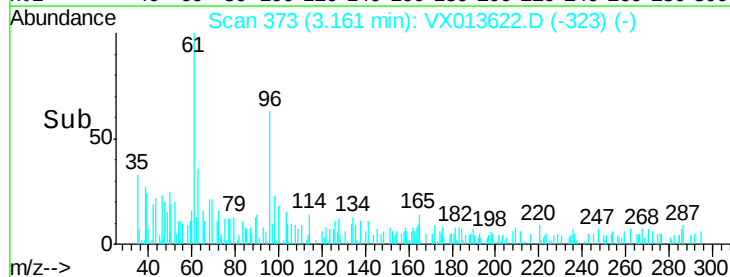
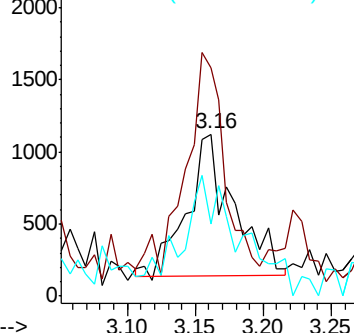
98 39.8 51.4 77.0#

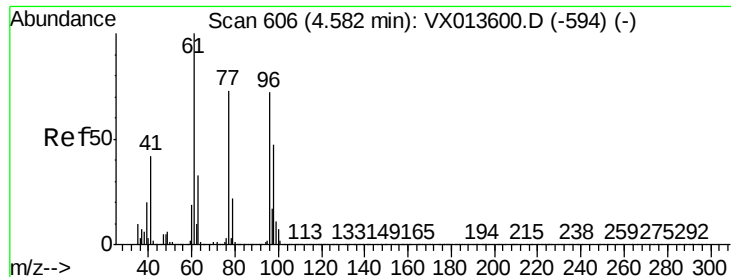


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



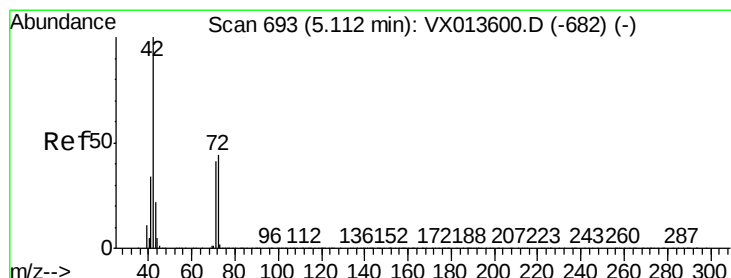
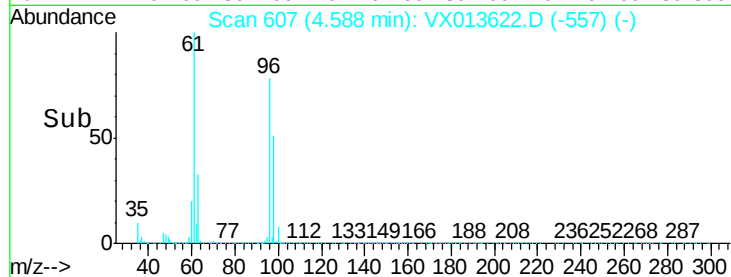
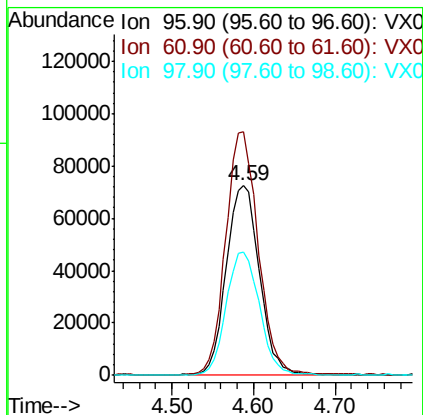
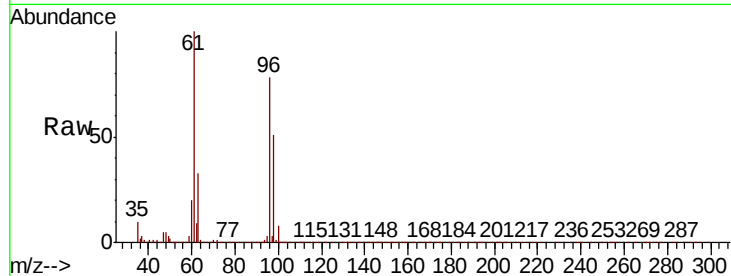


#27

cis-1,2-Dichloroethene
 Concen: 24.630 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. 0.01 min
 Lab File: VX013622.D
 Acq: 27 Nov 2019 01:09

Instrument :
 MSVOA_X
 ClientSampleId :
 15BR-20191120DL

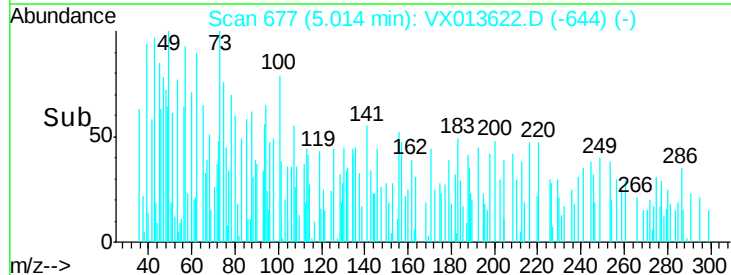
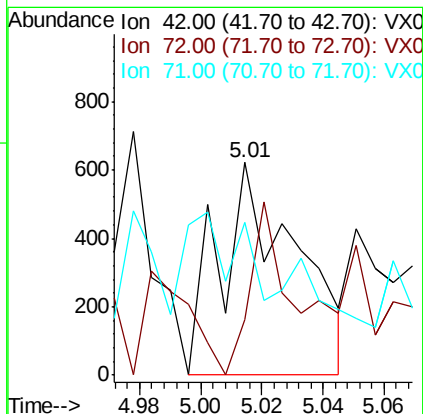
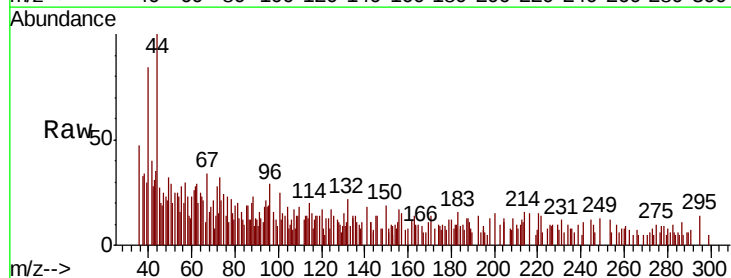
Tot Ion:	96	Resp:	201906
Ion	Ratio	Lower	Upper
96	100		
61	126.5	0.0	286.4
98	65.4	0.0	127.4

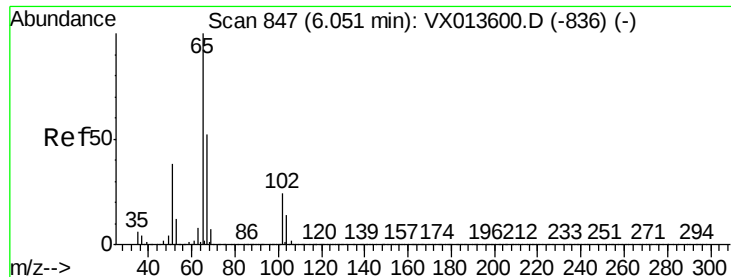


#29

Tetrahydrofuran
 Concen: 0.298 ug/l
 RT: 5.01 min Scan# 677
 Delta R.T. -0.10 min
 Lab File: VX013622.D
 Acq: 27 Nov 2019 01:09

Tgt Ion:	42	Resp:	1078
Ion	Ratio	Lower	Upper
42	100		
72	37.1	36.3	54.5
71	35.4	33.2	49.8





#33

1,2-Dichloroethane-d4

Concen: 49.303 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013622.D

Acq: 27 Nov 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

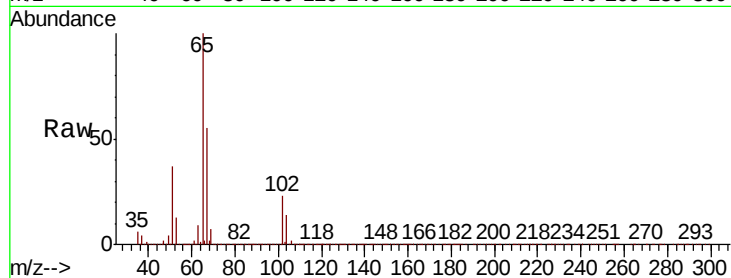
15BR-20191120DL

Tot Ion: 65 Resp: 394033

Ion Ratio Lower Upper

65 100

67 53.3 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

150000

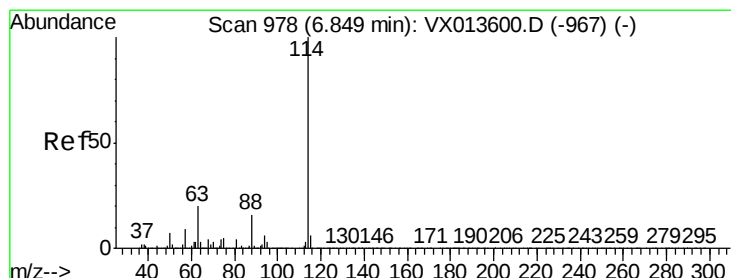
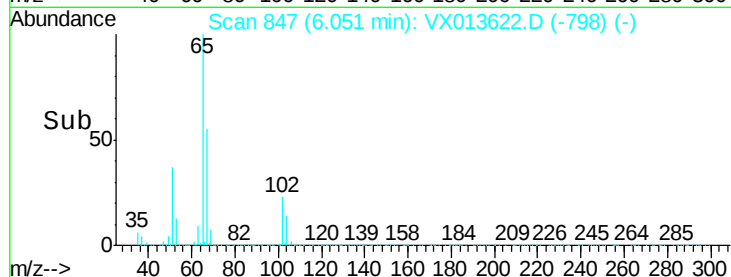
100000

50000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013622.D

Acq: 27 Nov 2019 01:09

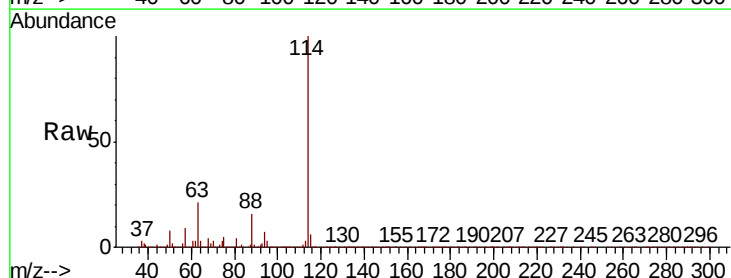
Tgt Ion: 114 Resp: 1091147

Ion Ratio Lower Upper

114 100

63 20.6 0.0 39.6

88 15.7 0.0 31.4



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

6.85

600000

500000

400000

300000

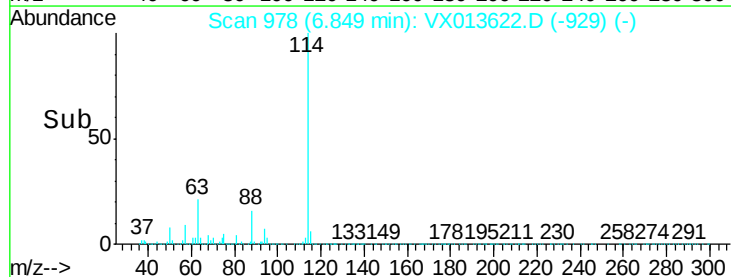
200000

100000

0

Time-->

6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 48.328 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013622.D

Acq: 27 Nov 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

15BR-20191120DL

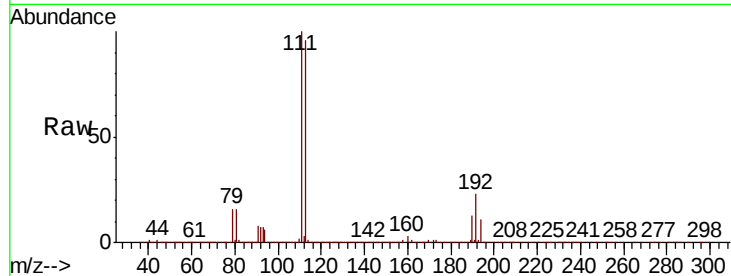
Tot Ion:113 Resp: 326001

Ion Ratio Lower Upper

113 100

111 103.0 83.6 125.4

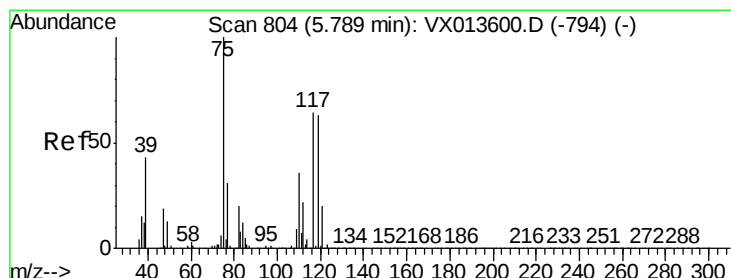
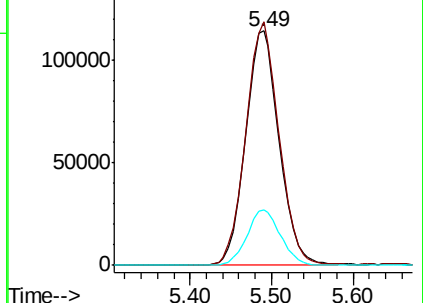
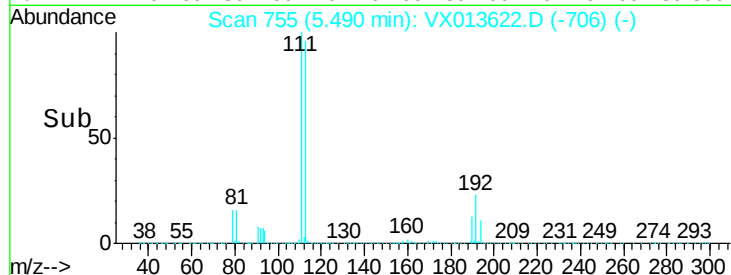
192 23.8 19.2 28.8



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: 4.637 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013622.D

Acq: 27 Nov 2019 01:09

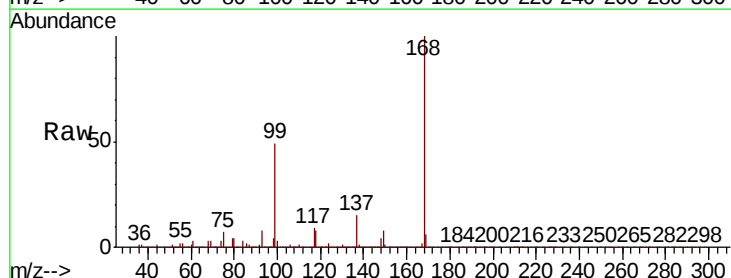
Tgt Ion: 75 Resp: 45928

Ion Ratio Lower Upper

75 100

110 10.0 18.1 54.1#

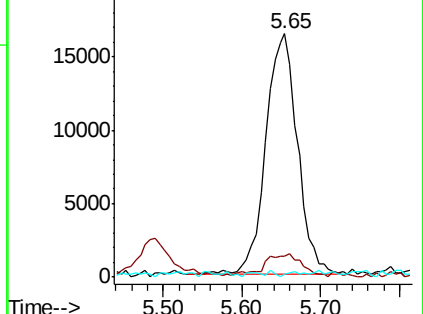
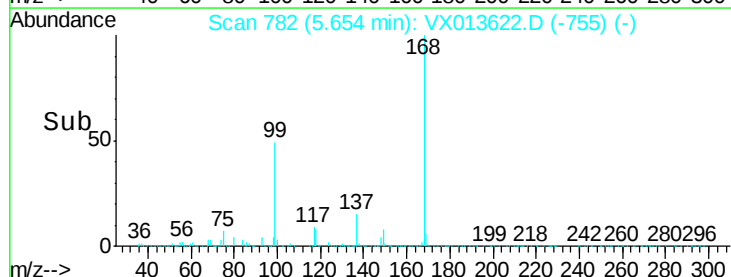
77 1.2 24.5 36.7#

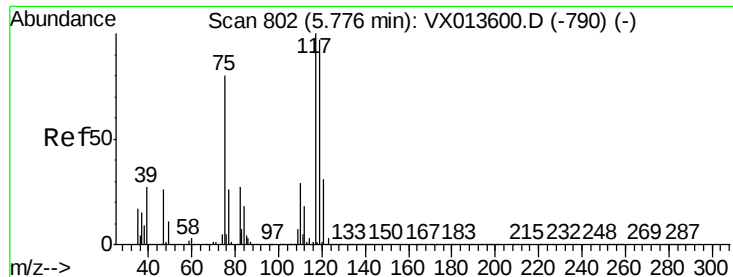


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.619 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX013622.D

Acq: 27 Nov 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

15BR-20191120DL

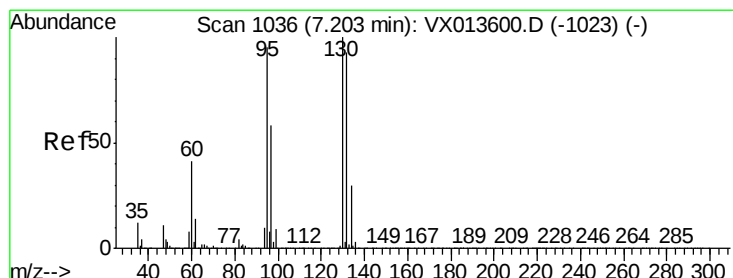
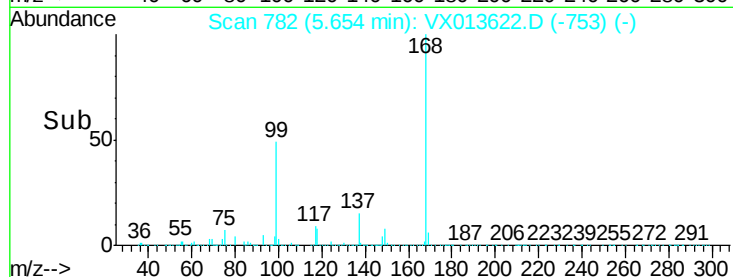
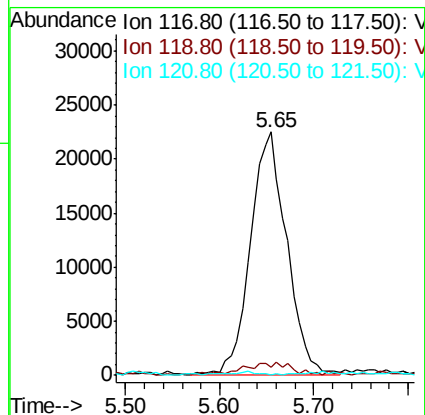
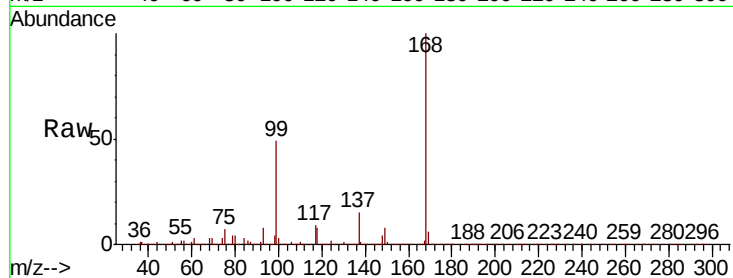
Tot Ion:117 Resp: 60450

Ion Ratio Lower Upper

117 100

119 2.7 77.5 116.3#

121 0.0 25.0 37.6#



#44

Trichloroethene

Concen: 26.933 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013622.D

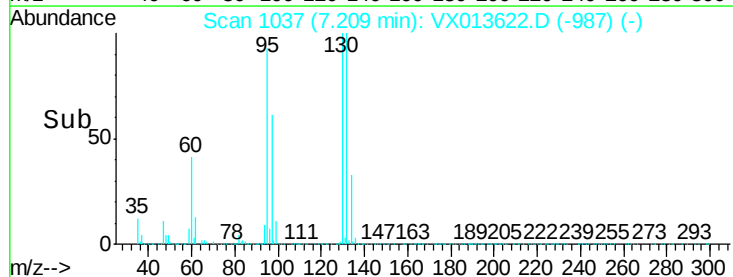
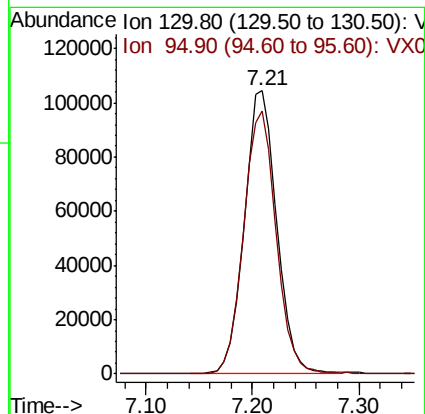
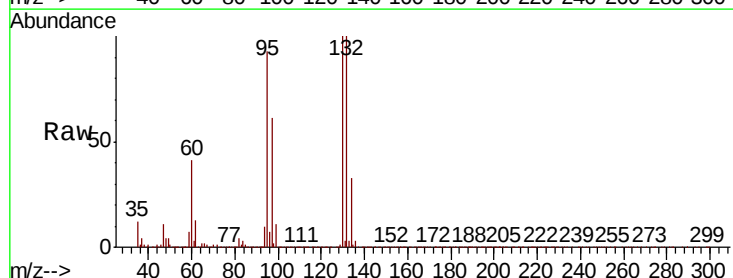
Acq: 27 Nov 2019 01:09

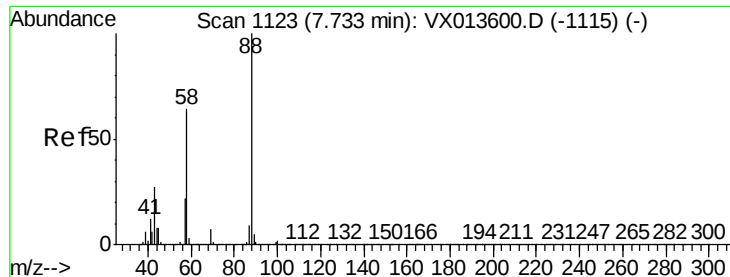
Tgt Ion:130 Resp: 222981

Ion Ratio Lower Upper

130 100

95 92.5 0.0 190.8





#49

1,4-Dioxane

Concen: 2.156 ug/l

RT: 7.70 min Scan# 1117

Delta R.T. -0.04 min

Lab File: VX013622.D

Acq: 27 Nov 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

15BR-20191120DL

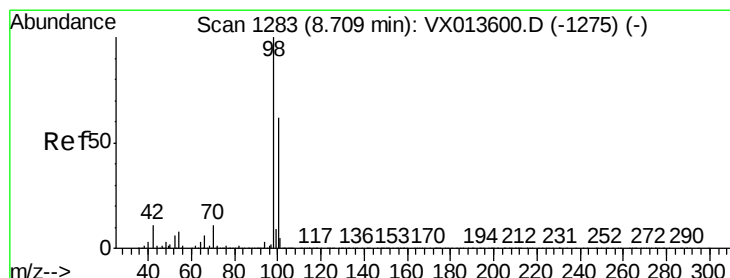
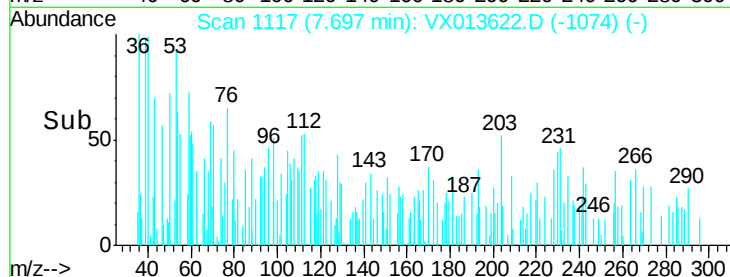
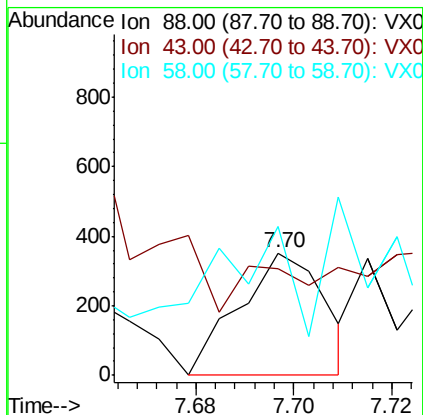
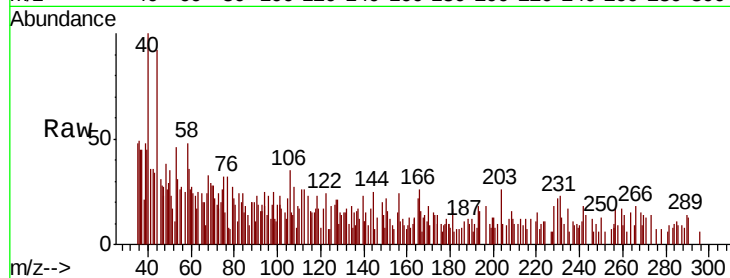
Tot Ion: 88 Resp: 429

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.6#

58 105.1 54.6 82.0#



#50

Toluene-d8

Concen: 49.837 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013622.D

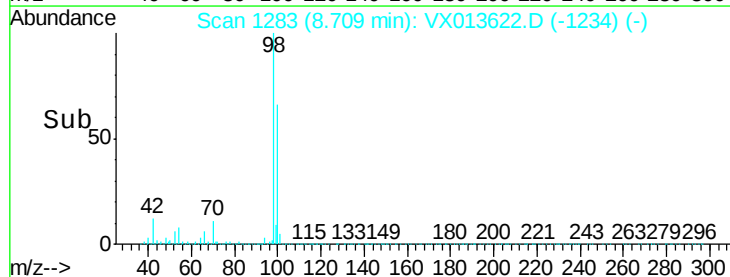
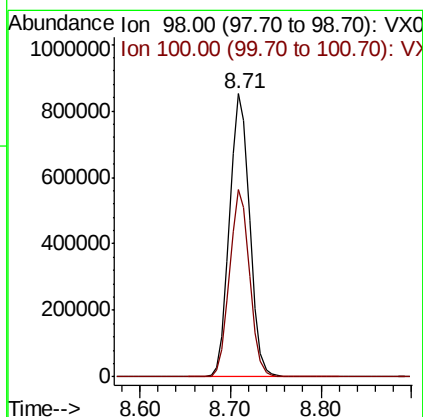
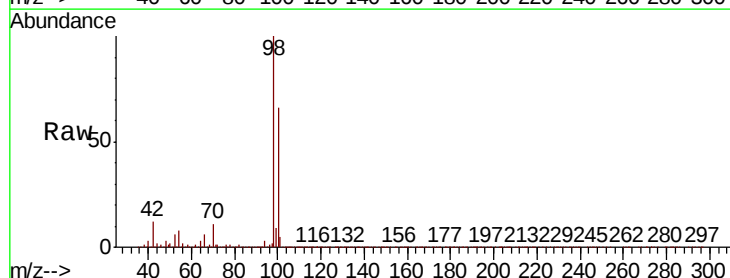
Acq: 27 Nov 2019 01:09

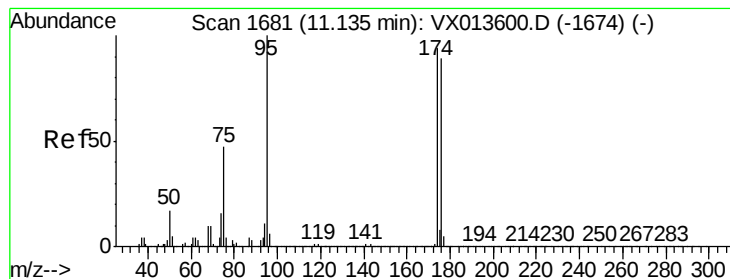
Tgt Ion: 98 Resp: 1309808

Ion Ratio Lower Upper

98 100

100 65.6 53.1 79.7





#62

4-Bromofluorobenzene

Concen: 46.276 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013622.D

Acq: 27 Nov 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

15BR-20191120DL

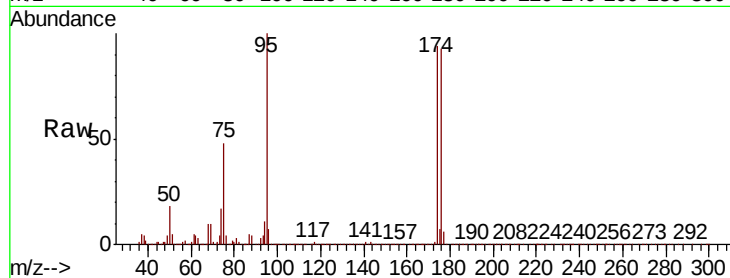
Tot Ion: 95 Resp: 438569

Ion Ratio Lower Upper

95 100

174 90.1 0.0 180.0

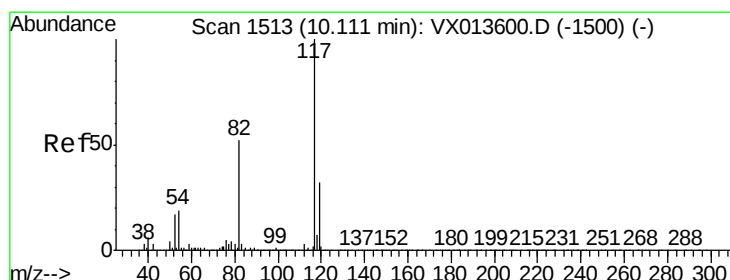
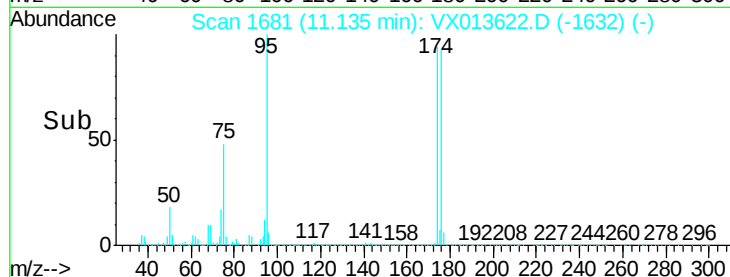
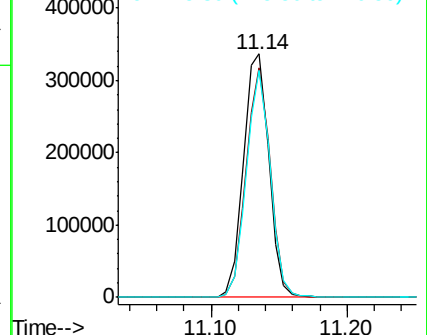
176 88.6 0.0 173.6



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: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013622.D

Acq: 27 Nov 2019 01:09

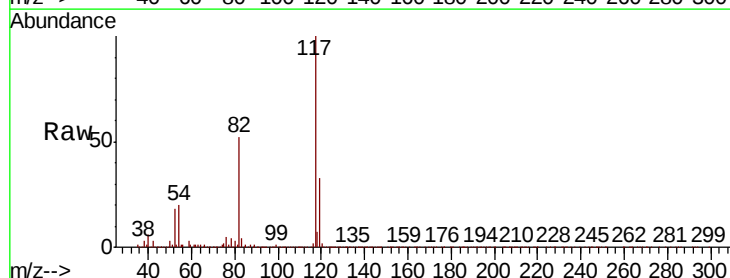
Tgt Ion: 117 Resp: 980699

Ion Ratio Lower Upper

117 100

82 52.2 41.8 62.8

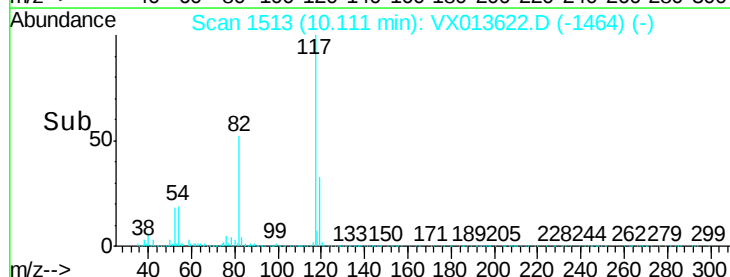
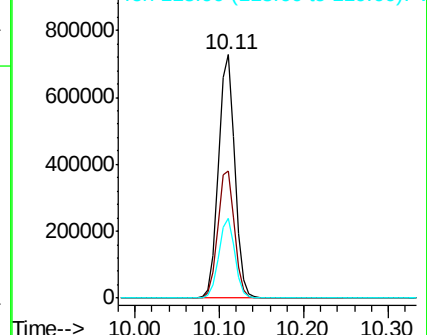
119 32.8 25.8 38.8

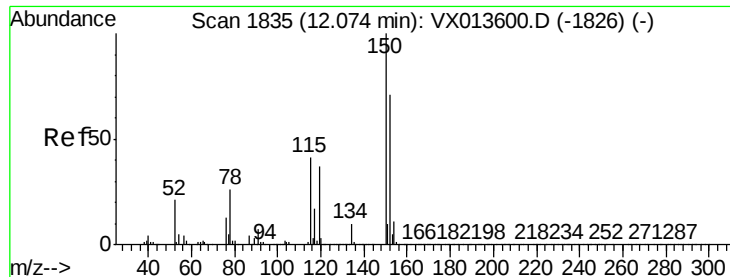


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



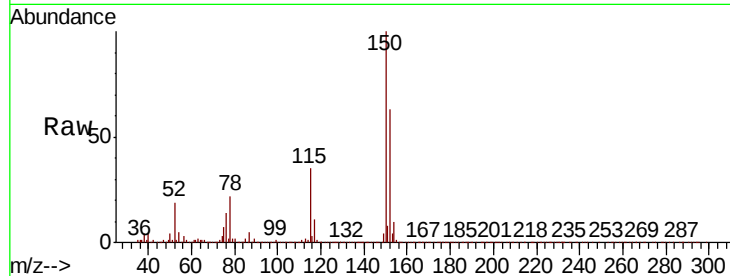


#72

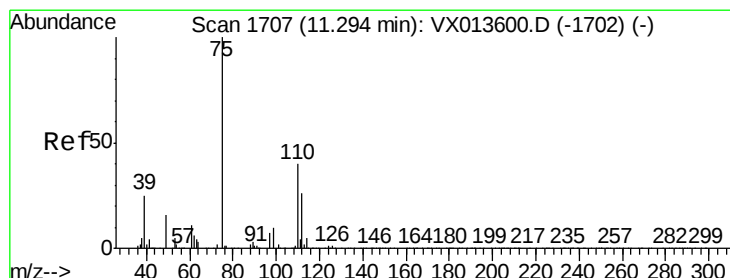
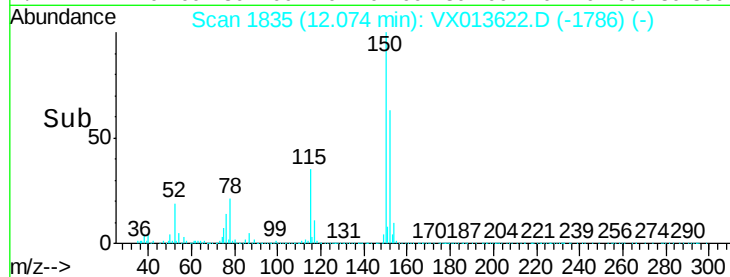
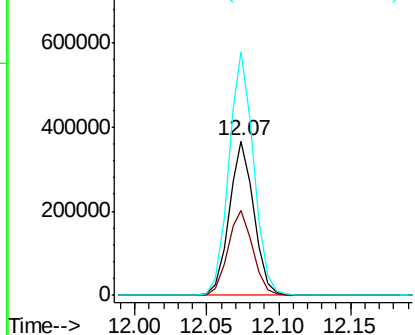
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013622.D
Acq: 27 Nov 2019 01:09

Instrument :
MSVOA_X
ClientSampleId :
15BR-20191120DL

Tot Ion	Ratio	Lower	Upper
152	100		
115	56.0	38.4	115.1
150	159.2	0.0	346.8



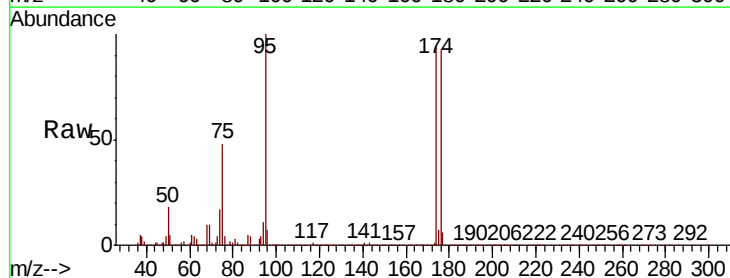
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



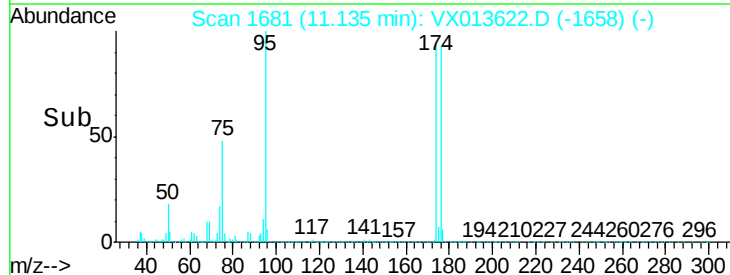
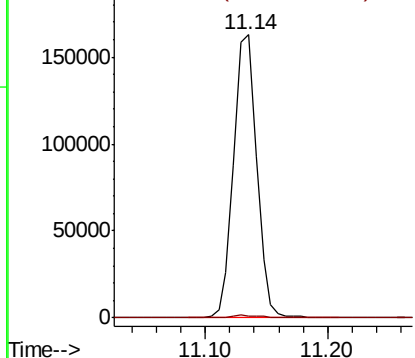
#76

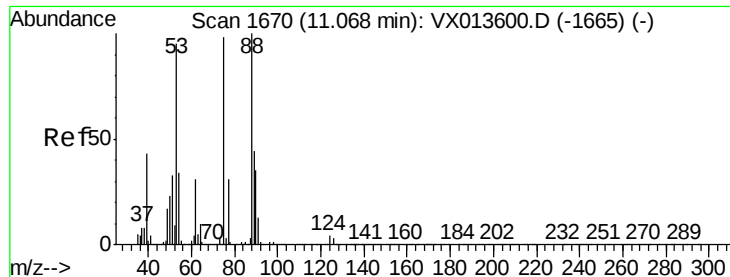
1,2,3-Trichloropropane
Concen: 21.581 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. -0.16 min
Lab File: VX013622.D
Acq: 27 Nov 2019 01:09

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	19.1	57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0

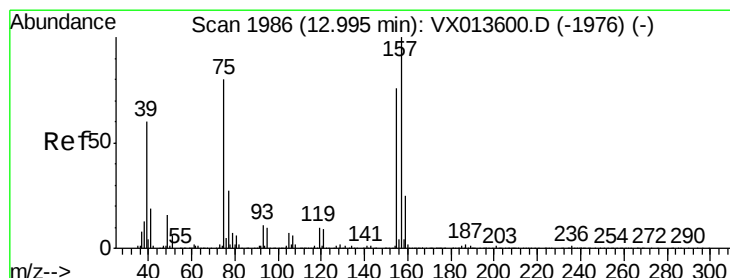
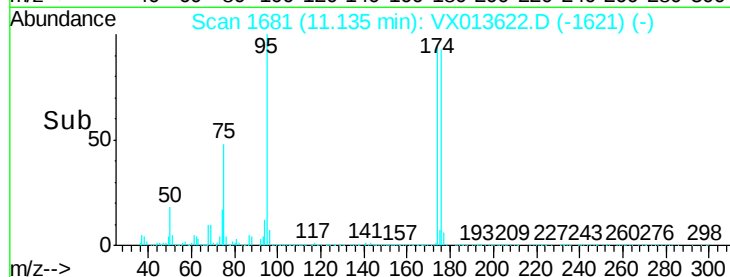
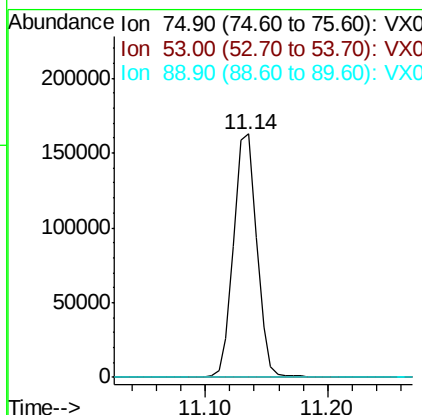
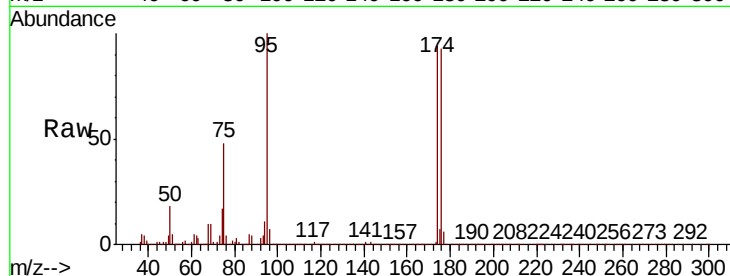




#81
trans-1,4-Dichloro-2-butene
Concen: 59.041 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.07 min
Lab File: VX013622.D
Acq: 27 Nov 2019 01:09

Instrument :
MSVOA_X
ClientSampleId :
15BR-20191120DL

Tot Ion: 75 Resp: 213440
Ion Ratio Lower Upper
75 100
53 0.0 78.2 117.2#
89 0.3 35.4 53.2#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.347 ug/l
RT: 13.01 min Scan# 1989
Delta R.T. 0.02 min
Lab File: VX013622.D
Acq: 27 Nov 2019 01:09

Tgt Ion: 75 Resp: 808
Ion Ratio Lower Upper
75 100
155 31.1 47.6 142.8#
157 27.8 62.1 186.2#

