

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX112119\
 Data File : VX013512.D
 Acq On : 21 Nov 2019 18:43
 Operator : JC/SP
 Sample : K5962-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 20BR-20191120

Quant Time: Nov 22 01:11:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 02 07:06:38 2019
 Response via : Initial Calibration

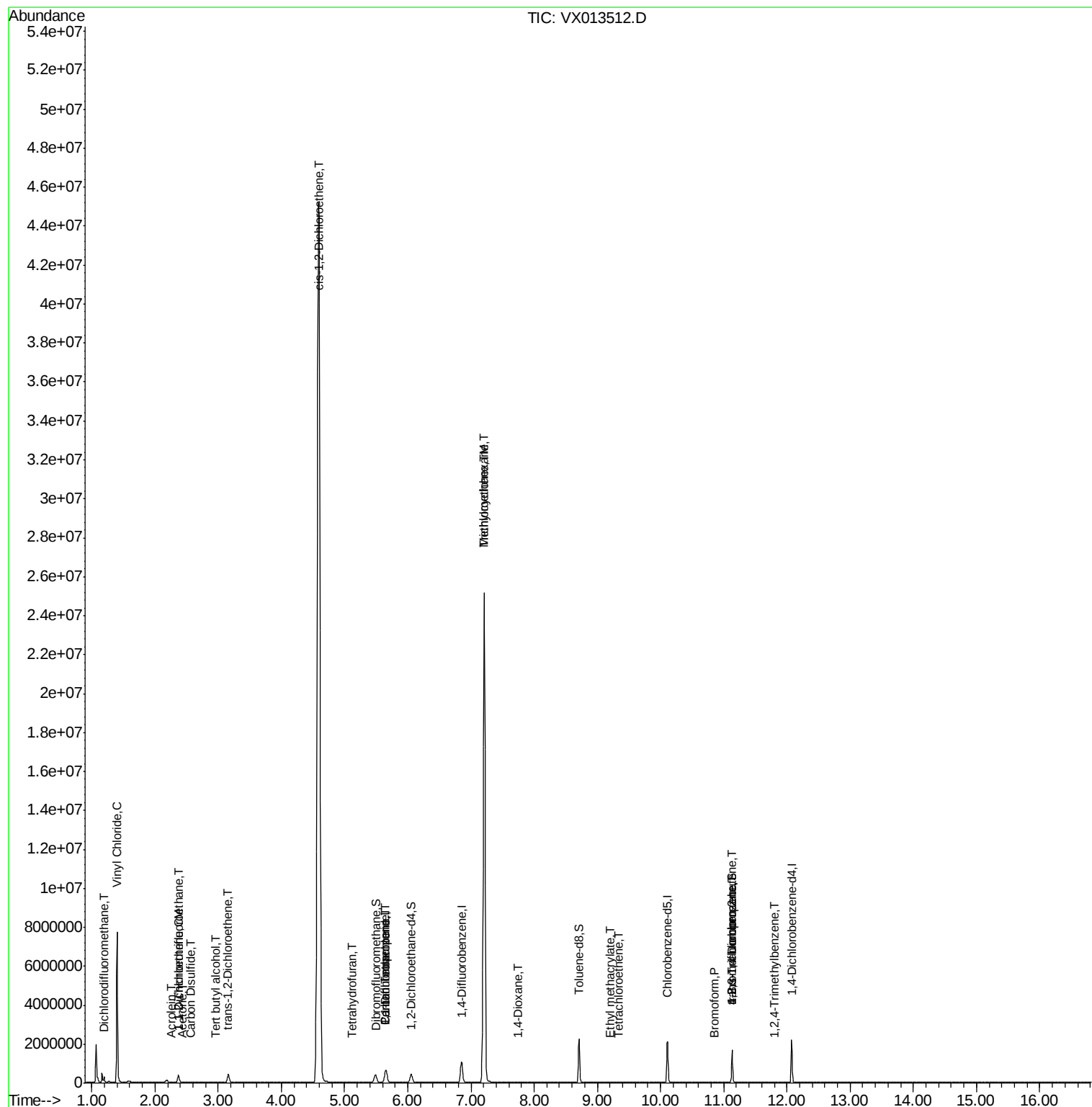
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	680050	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1104993	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	994057	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	443867	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	403341	50.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.12%	
35) Dibromofluoromethane	5.49	113	332036	47.91	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.82%	
50) Toluene-d8	8.71	98	1327179	50.80	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.60%	
62) 4-Bromofluorobenzene	11.13	95	443364	47.02	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.04%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.19	85	166136	21.203	ug/l	99
4) Vinyl Chloride	1.40	62	4714157	487.318	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	55596	8.728	ug/l	96
11) Tert butyl alcohol	2.96	59	1005	0.473	ug/l #	73
12) 1,1-Dichloroethene	2.37	96	96457	15.463	ug/l	99
13) Acrolein	2.27	56	278	0.242	ug/l #	14
16) Acetone	2.44	43	2451	0.610	ug/l #	68
17) Carbon Disulfide	2.56	76	3417	0.205	ug/l #	88
21) trans-1,2-Dichloroethene	3.16	96	203479	29.959	ug/l	99
27) cis-1,2-Dichloroethene	4.58	96	28652215	3765.825	ug/l #	16
29) Tetrahydrofuran	5.13	42	9631	2.651	ug/l	92
36) 1,1-Dichloropropene	5.65	75	48001	5.064	ug/l #	50
38) Carbon Tetrachloride	5.65	117	58895	6.353	ug/l #	16
39) Methylcyclohexane	7.21	83	110925	9.391	ug/l #	1
44) Trichloroethene	7.21	130	9797339	1205.366	ug/l	98
49) 1,4-Dioxane	7.75	88	179	0.858	ug/l #	1
56) Ethyl methacrylate	9.21	69	162	1.575	ug/l #	33
64) Tetrachloroethene	9.33	164	2140	0.301	ug/l #	91
71) Bromoform	10.84	173	188	3.228	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	216385	24.001	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	216385	61.779	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.80	105	5041	0.205	ug/l	85

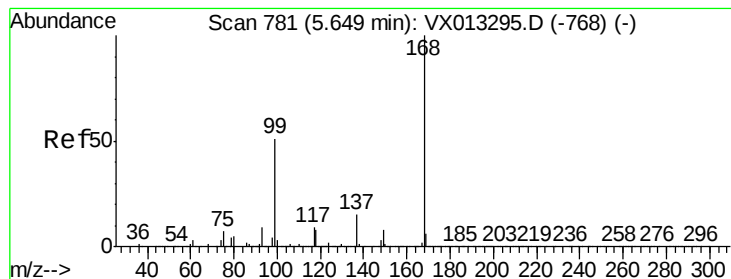
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Nov 02 07:06:38 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: VX013512.D

Acq: 21 Nov 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

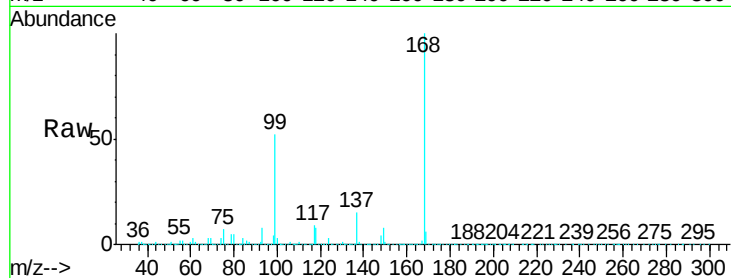
20BR-20191120

Tgt Ion:168 Resp: 680050

Ion Ratio Lower Upper

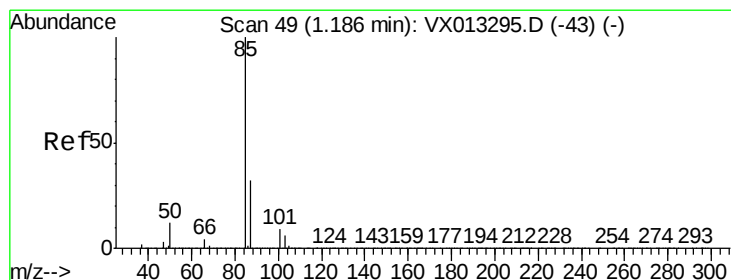
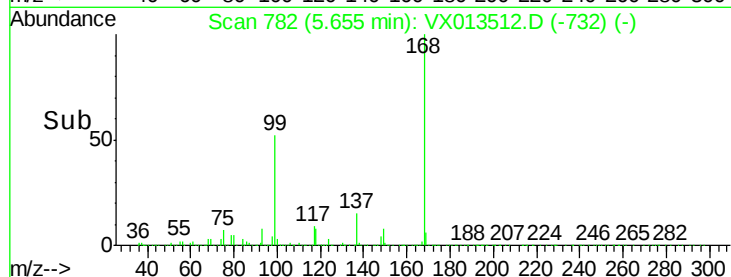
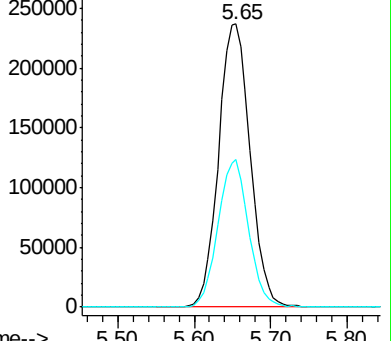
168 100

99 52.2 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 21.203 ug/l

RT: 1.19 min Scan# 49

Delta R.T. 0.00 min

Lab File: VX013512.D

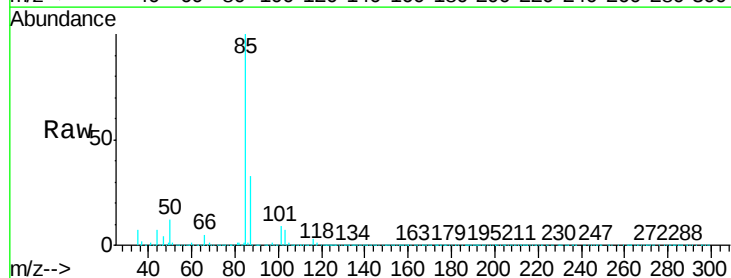
Acq: 21 Nov 2019 18:43

Tgt Ion: 85 Resp: 166136

Ion Ratio Lower Upper

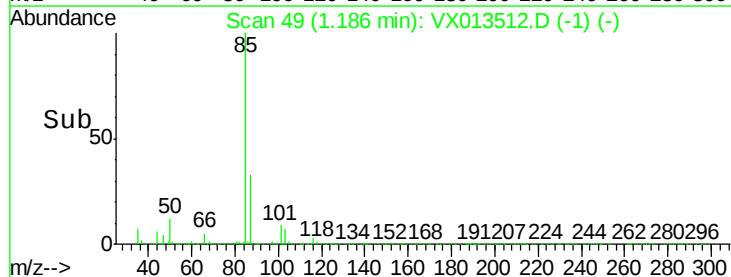
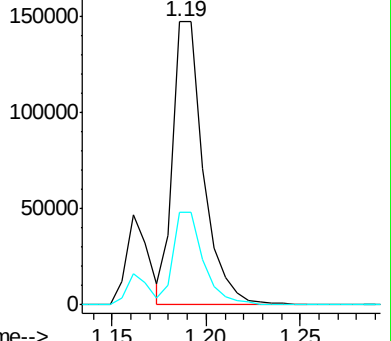
85 100

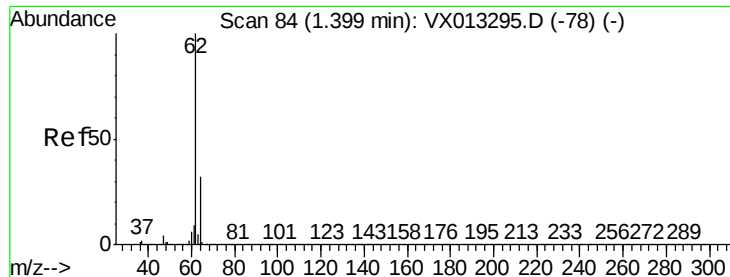
87 32.4 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#4

Vinyl Chloride

Concen: 487.318 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX013512.D

Acq: 21 Nov 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

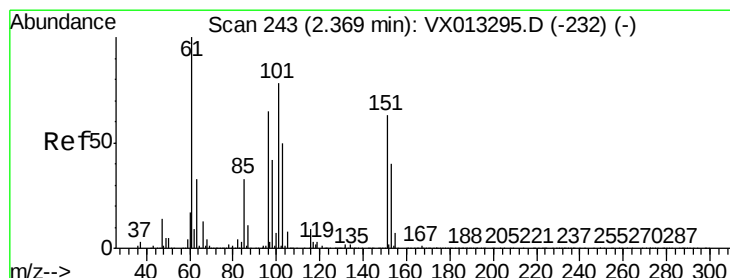
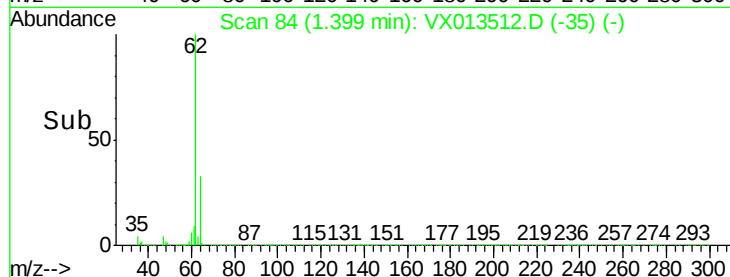
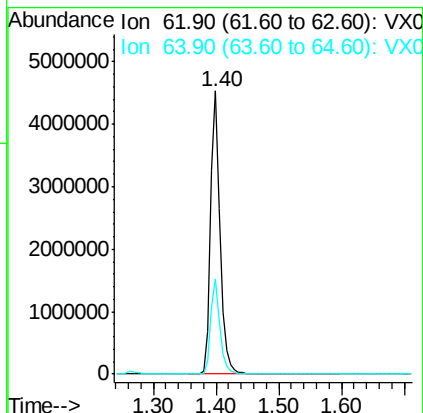
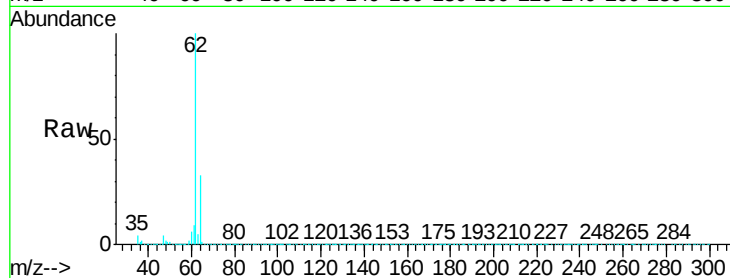
20BR-20191120

Tgt Ion: 62 Resp: 4714157

Ion Ratio Lower Upper

62 100

64 33.4 25.6 38.4



#9

1,1,2-Trichlorotrifluoroethane

Concen: 8.728 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX013512.D

Acq: 21 Nov 2019 18:43

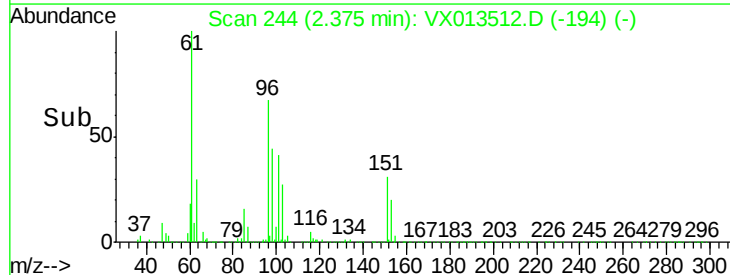
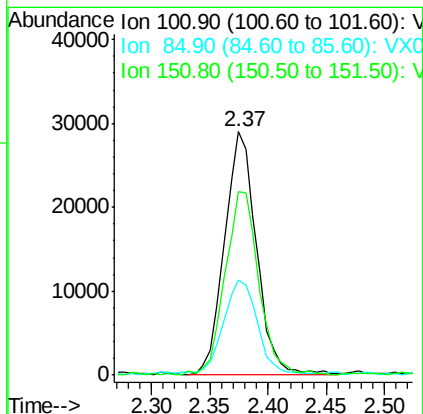
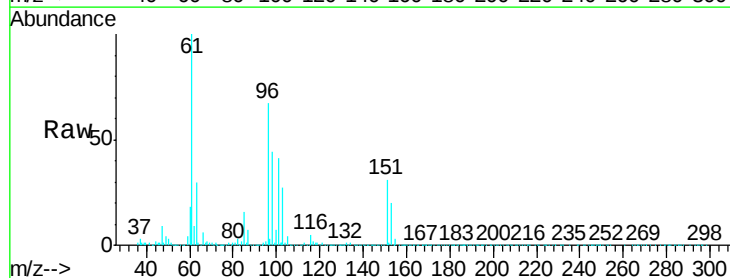
Tgt Ion: 101 Resp: 55596

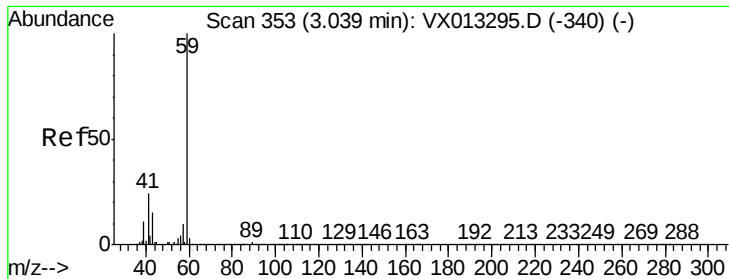
Ion Ratio Lower Upper

101 100

85 40.1 34.4 51.6

151 79.5 66.4 99.6



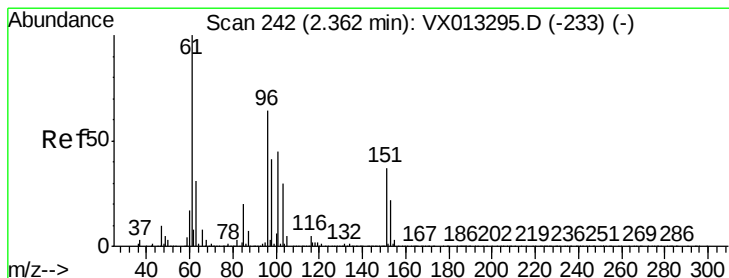
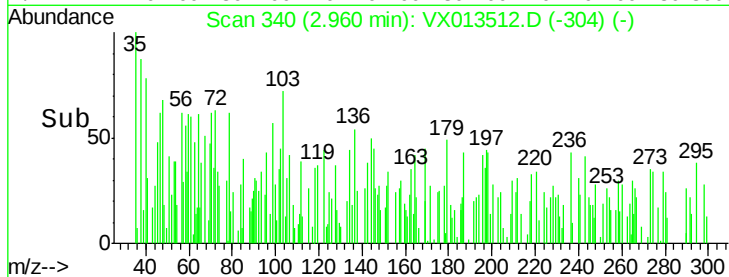
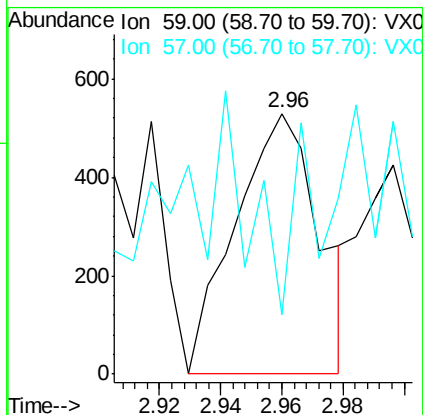
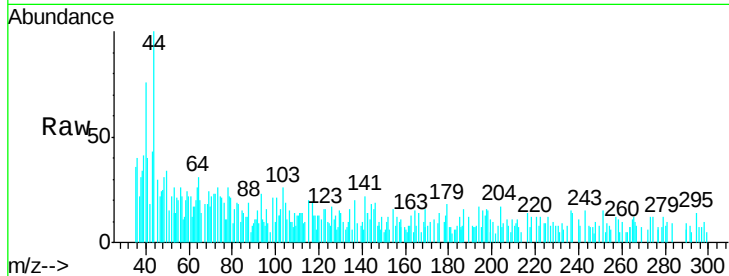


#11

Tert butyl alcohol
Concen: 0.473 ug/l
RT: 2.96 min Scan# 340
Delta R.T. -0.08 min
Lab File: VX013512.D
Acq: 21 Nov 2019 18:43

Instrument :
MSVOA_X
ClientSampleId :
20BR-20191120

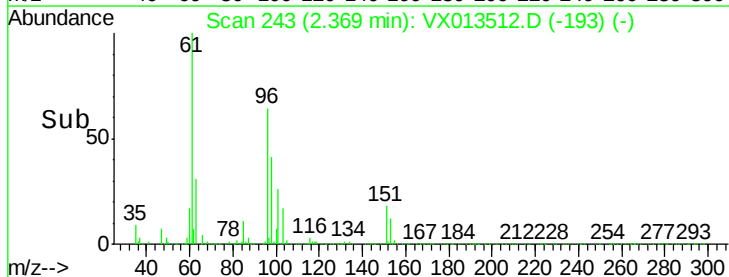
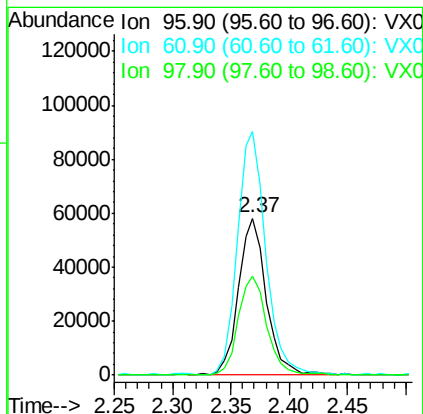
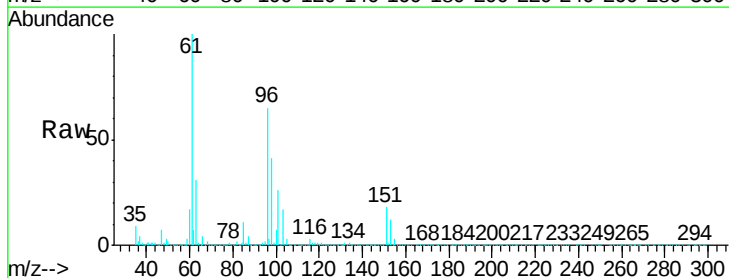
Tgt Ion: 59 Resp: 1005
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#

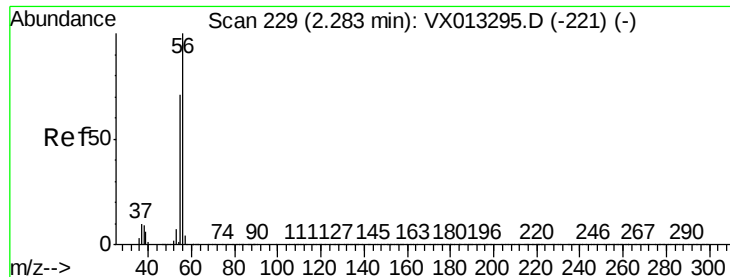


#12

1,1-Dichloroethene
Concen: 15.463 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.01 min
Lab File: VX013512.D
Acq: 21 Nov 2019 18:43

Tgt Ion: 96 Resp: 96457
Ion Ratio Lower Upper
96 100
61 154.7 125.0 187.6
98 62.6 50.7 76.1





#13

Acrolein

Concen: 0.242 ug/l

RT: 2.27 min Scan# 226

Delta R.T. -0.02 min

Lab File: VX013512.D

Acq: 21 Nov 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

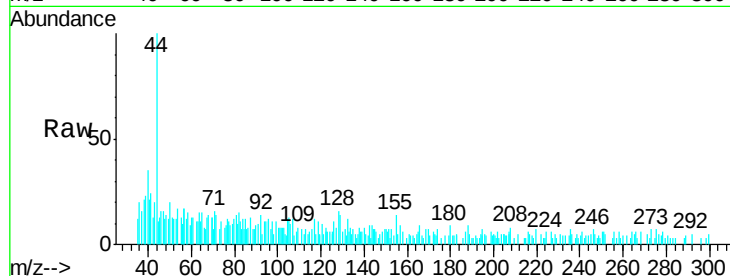
20BR-20191120

Tgt Ion: 56 Resp: 278

Ion Ratio Lower Upper

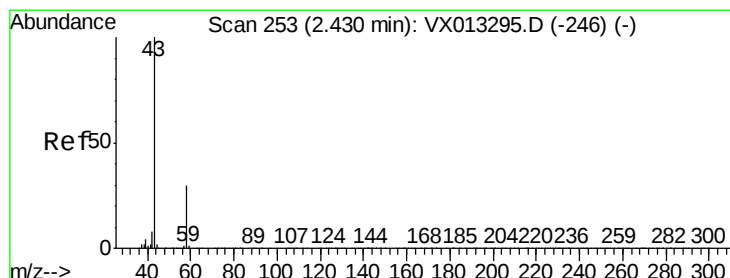
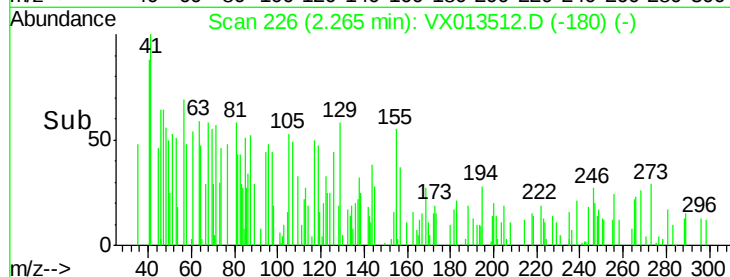
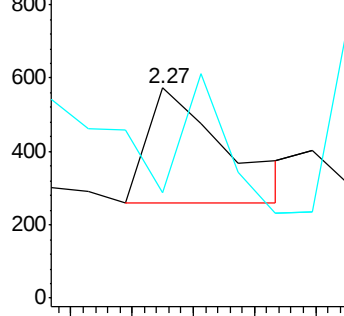
56 100

55 0.0 57.4 86.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.610 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX013512.D

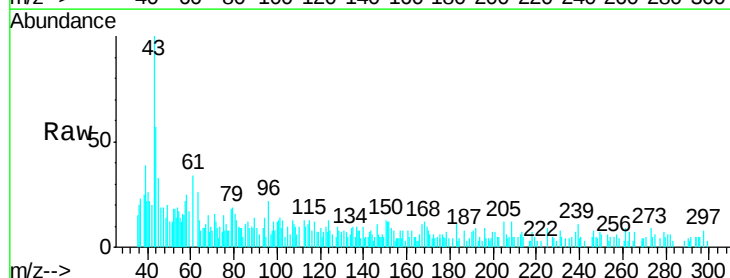
Acq: 21 Nov 2019 18:43

Tgt Ion: 43 Resp: 2451

Ion Ratio Lower Upper

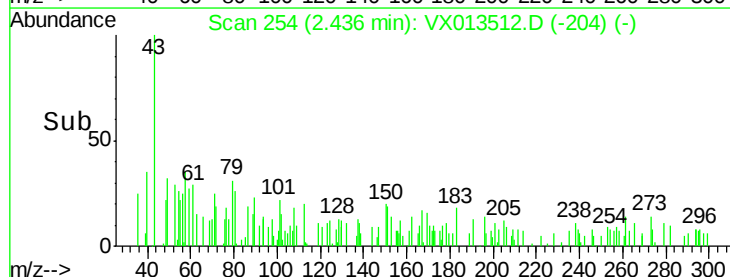
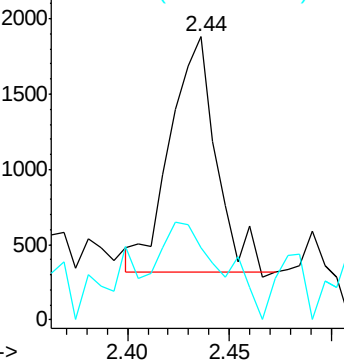
43 100

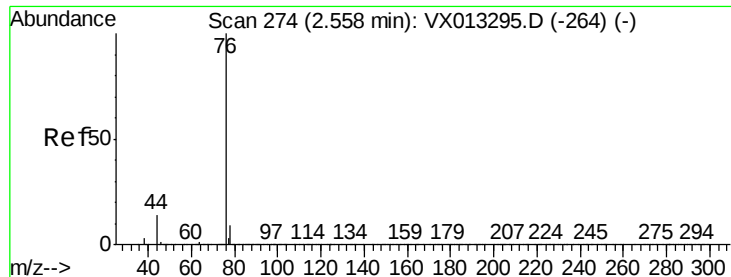
58 13.1 24.3 36.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.205 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX013512.D

Acq: 21 Nov 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

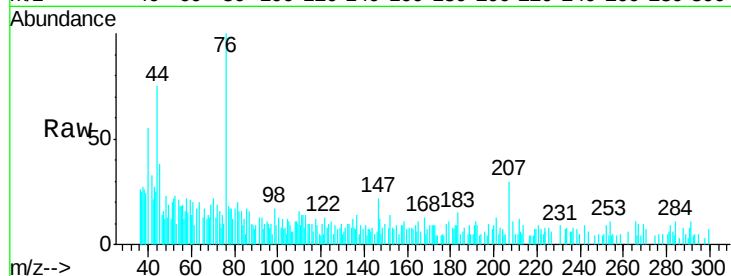
20BR-20191120

Tgt Ion: 76 Resp: 3417

Ion Ratio Lower Upper

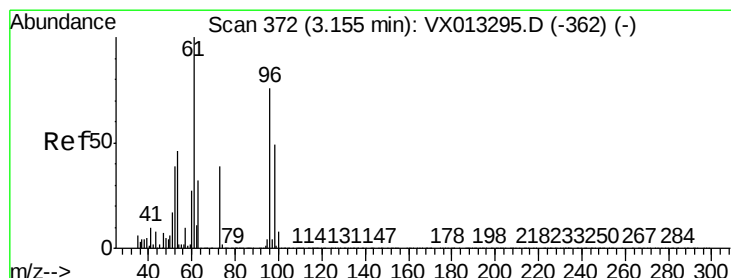
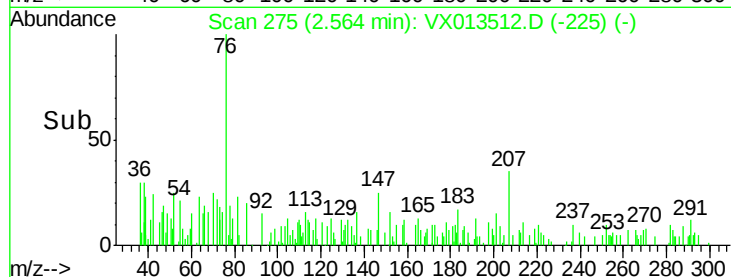
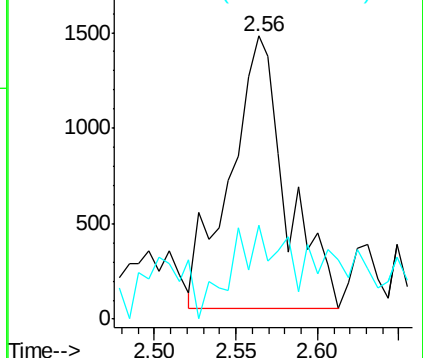
76 100

78 13.2 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#21

trans-1,2-Dichloroethene

Concen: 29.959 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX013512.D

Acq: 21 Nov 2019 18:43

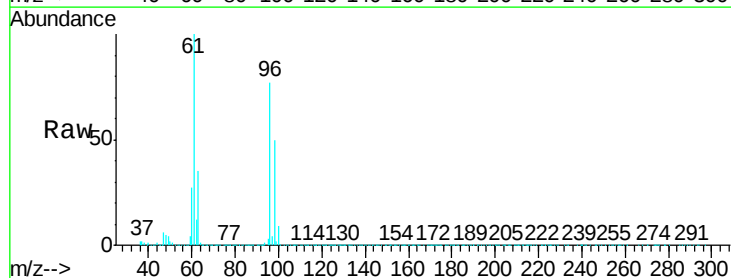
Tgt Ion: 96 Resp: 203479

Ion Ratio Lower Upper

96 100

61 130.0 105.8 158.6

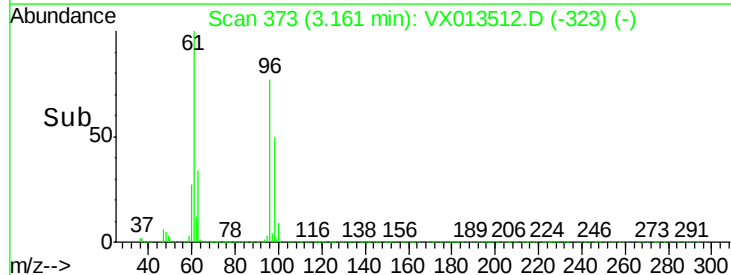
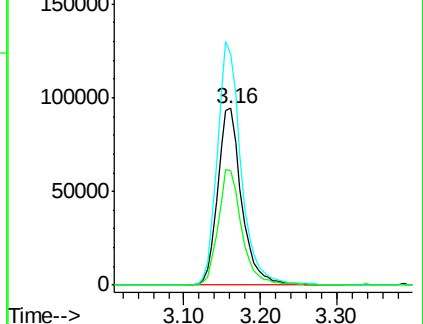
98 64.9 51.8 77.6

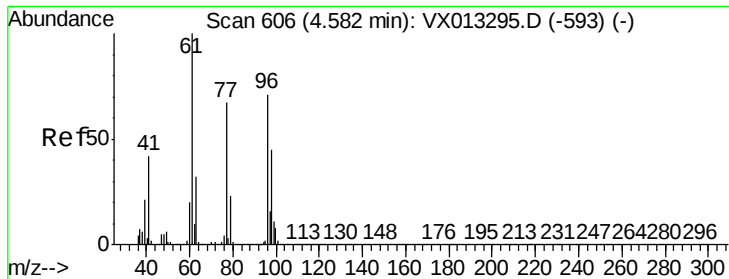


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

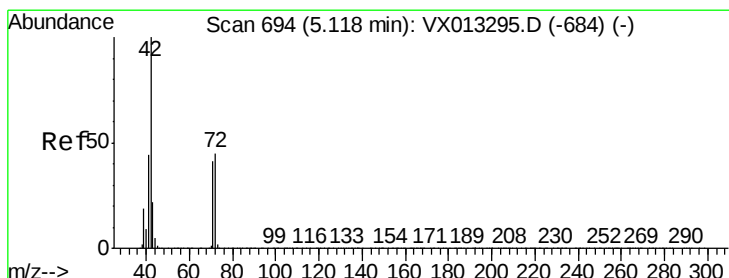
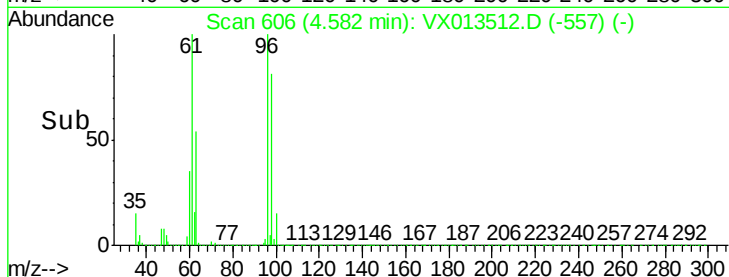
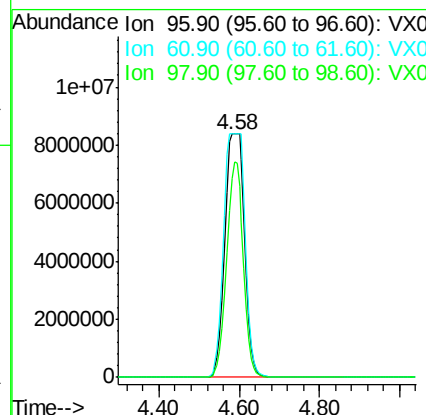
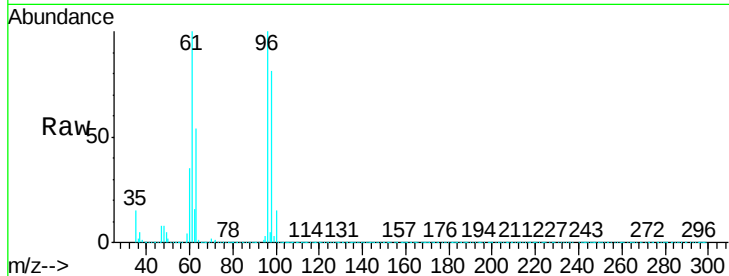




#27
 cis-1,2-Dichloroethene
 Concen: 3765.825 ug/l
 RT: 4.58 min Scan# 606
 Delta R.T. 0.00 min
 Lab File: VX013512.D
 Acq: 21 Nov 2019 18:43

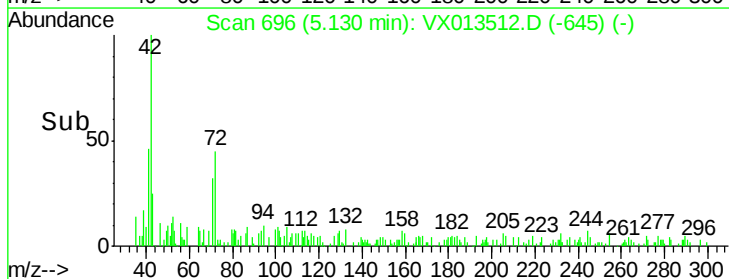
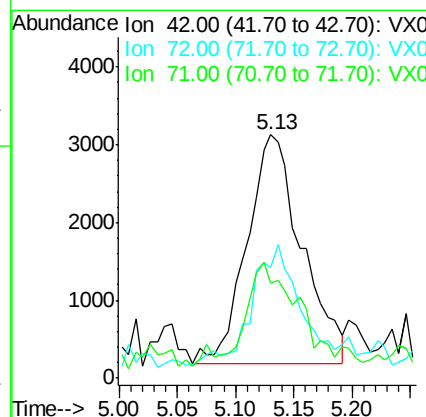
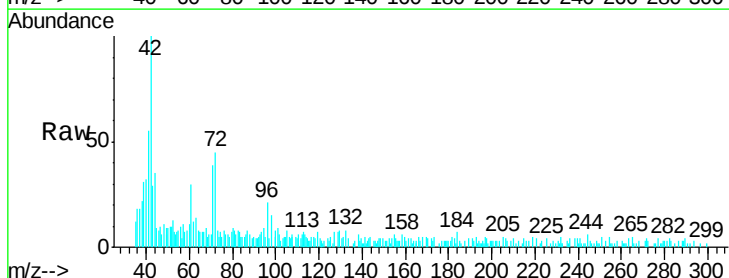
Instrument :
 MSVOA_X
 ClientSampleId :
 20BR-20191120

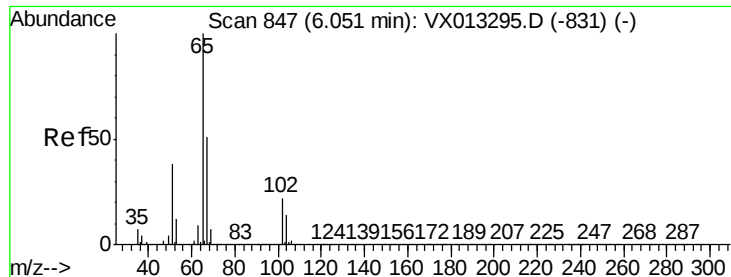
Tgt Ion: 96 Resp: 28652215
 Ion Ratio Lower Upper
 96 100
 61 0.0 0.0 288.0
 98 74.8 0.0 129.6



#29
 Tetrahydrofuran
 Concen: 2.651 ug/l
 RT: 5.13 min Scan# 696
 Delta R.T. 0.01 min
 Lab File: VX013512.D
 Acq: 21 Nov 2019 18:43

Tgt Ion: 42 Resp: 9631
 Ion Ratio Lower Upper
 42 100
 72 41.3 35.8 53.8
 71 34.7 33.4 50.0





#33

1,2-Dichloroethane-d4

Concen: 50.064 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX013512.D

Acq: 21 Nov 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

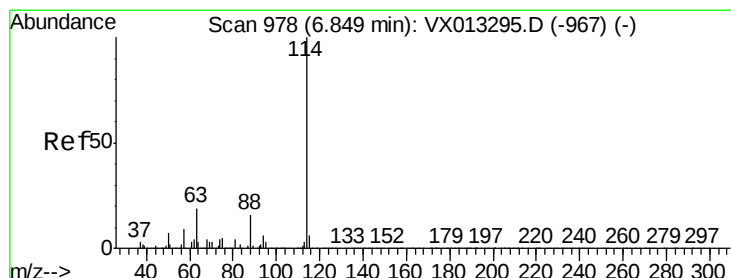
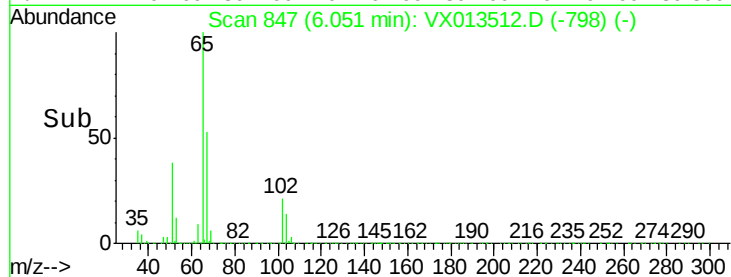
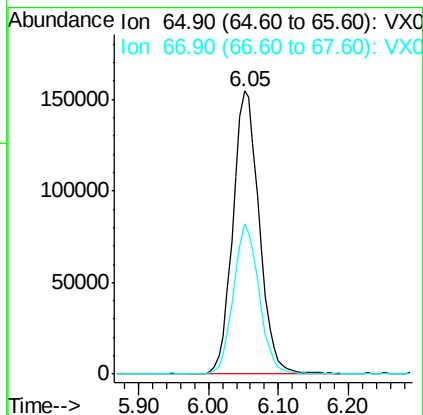
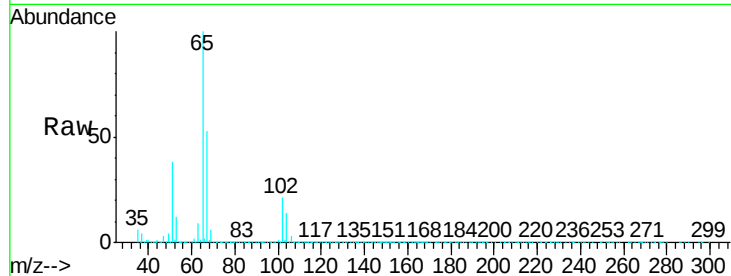
20BR-20191120

Tgt Ion: 65 Resp: 403341

Ion Ratio Lower Upper

65 100

67 51.4 0.0 104.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013512.D

Acq: 21 Nov 2019 18:43

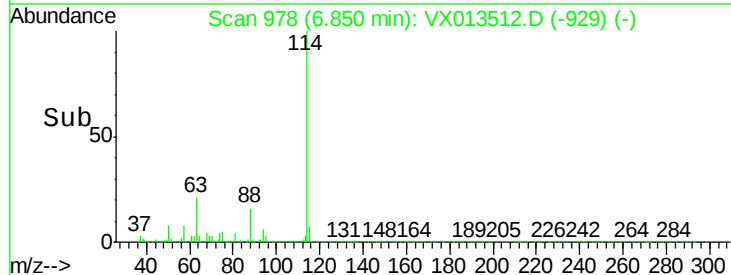
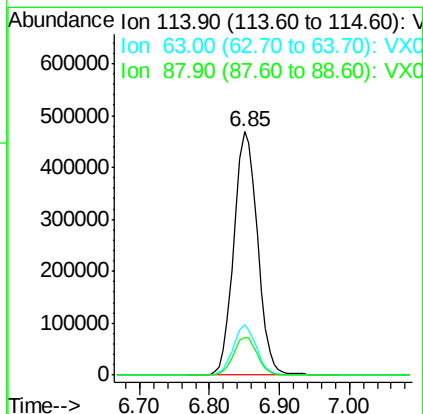
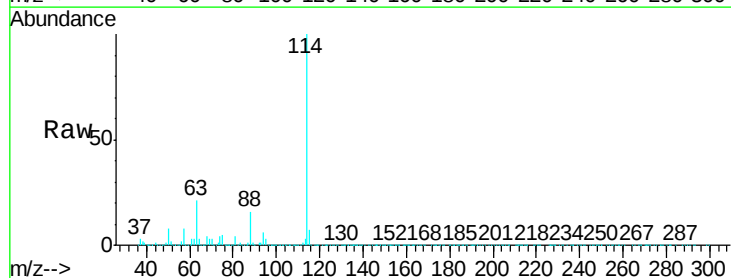
Tgt Ion: 114 Resp: 1104993

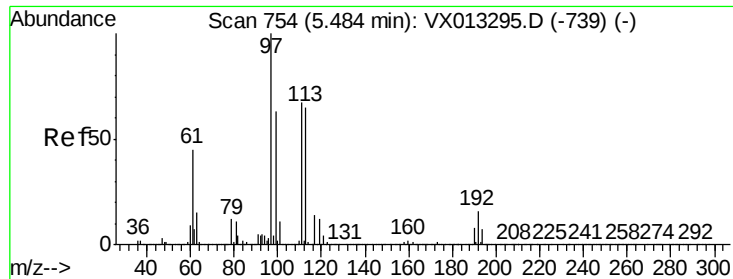
Ion Ratio Lower Upper

114 100

63 20.5 0.0 38.4

88 15.6 0.0 32.2

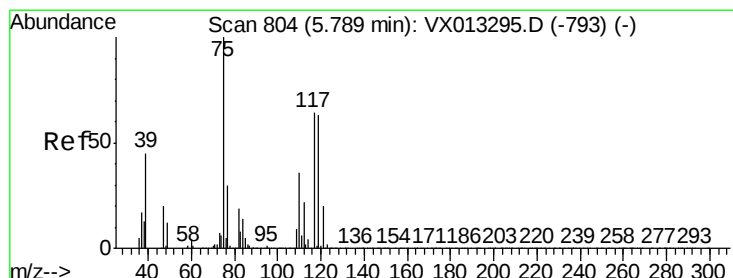
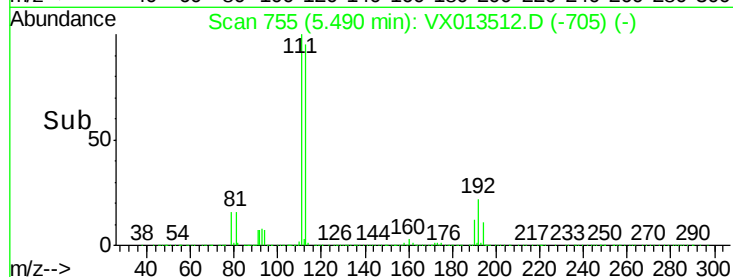
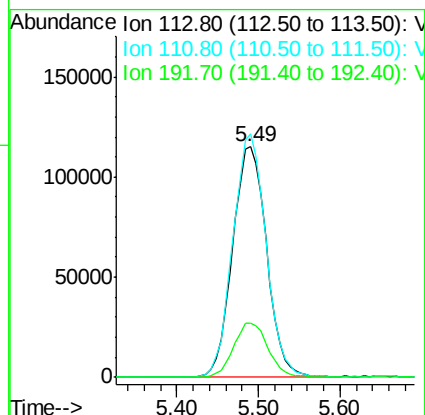
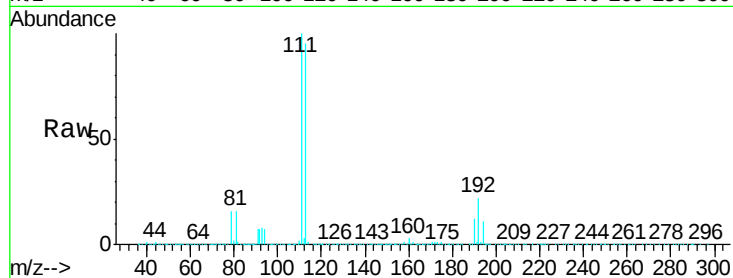




#35
Dibromofluoromethane
Concen: 47.908 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.01 min
Lab File: VX013512.D
Acq: 21 Nov 2019 18:43

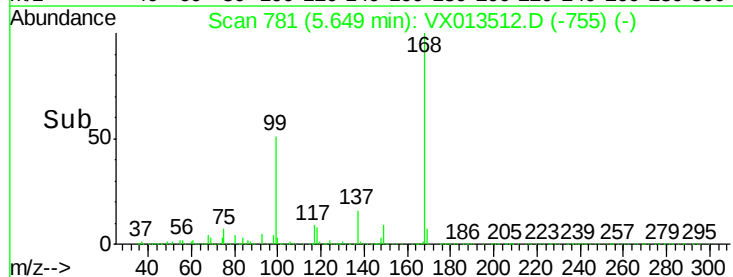
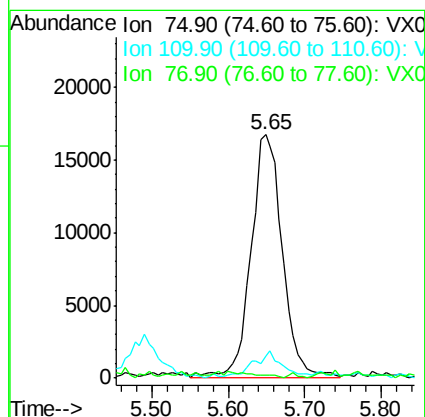
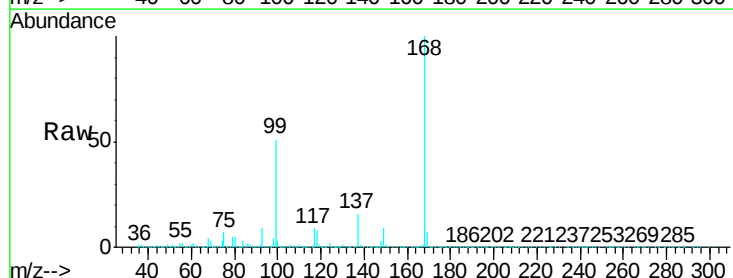
Instrument :
MSVOA_X
ClientSampleId :
20BR-20191120

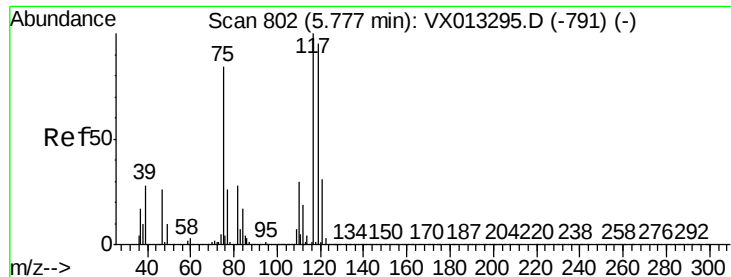
Tgt Ion:113 Resp: 332036
Ion Ratio Lower Upper
113 100
111 103.4 81.9 122.9
192 23.8 19.1 28.7



#36
1,1-Dichloropropene
Concen: 5.064 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.14 min
Lab File: VX013512.D
Acq: 21 Nov 2019 18:43

Tgt Ion: 75 Resp: 48001
Ion Ratio Lower Upper
75 100
110 10.2 18.1 54.1#
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.353 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX013512.D

Acq: 21 Nov 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

20BR-20191120

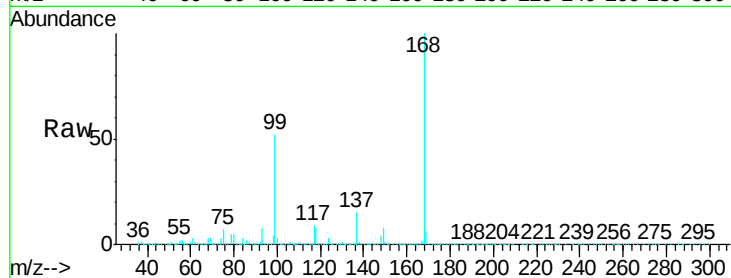
Tgt Ion:117 Resp: 58895

Ion Ratio Lower Upper

117 100

119 4.7 76.1 114.1#

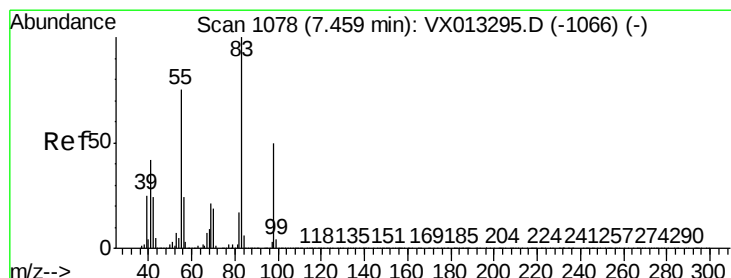
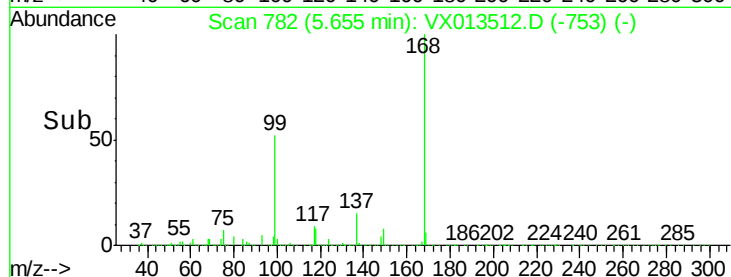
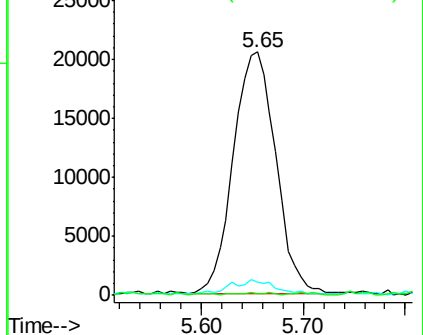
121 0.5 24.6 37.0#



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



#39

Methylcyclohexane

Concen: 9.391 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. -0.25 min

Lab File: VX013512.D

Acq: 21 Nov 2019 18:43

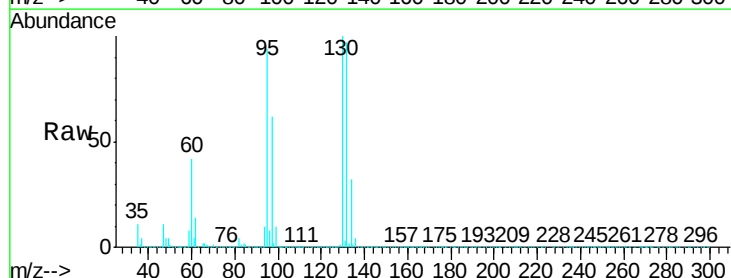
Tgt Ion: 83 Resp: 110925

Ion Ratio Lower Upper

83 100

55 0.2 60.3 90.5#

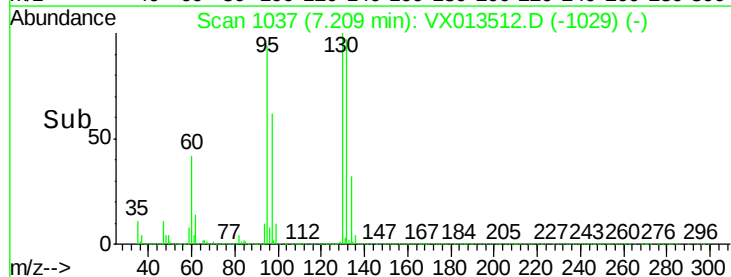
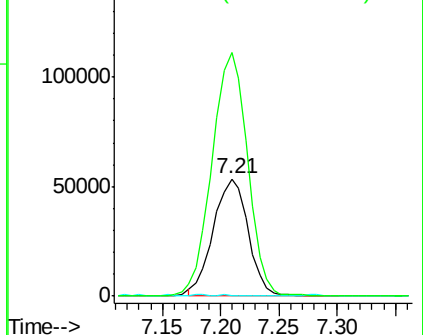
98 206.4 40.3 60.5#

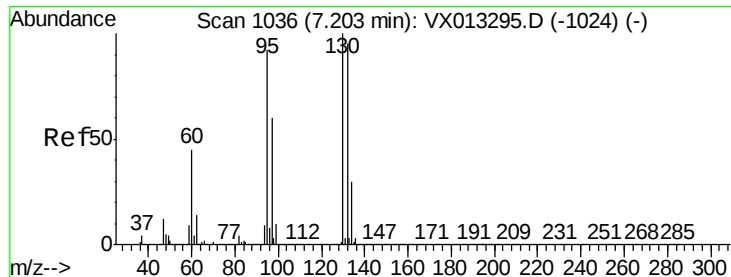


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 1205.366 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013512.D

Acq: 21 Nov 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

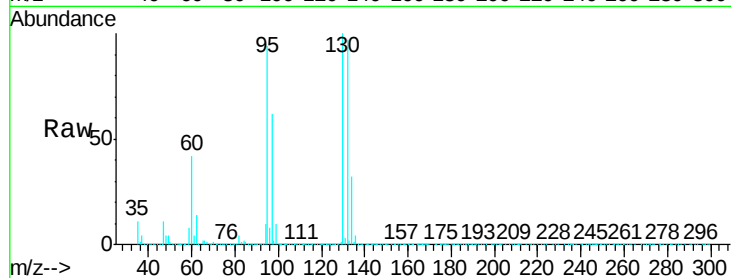
20BR-20191120

Tgt Ion:130 Resp: 9797339

Ion Ratio Lower Upper

130 100

95 94.3 0.0 184.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

5000000

4000000

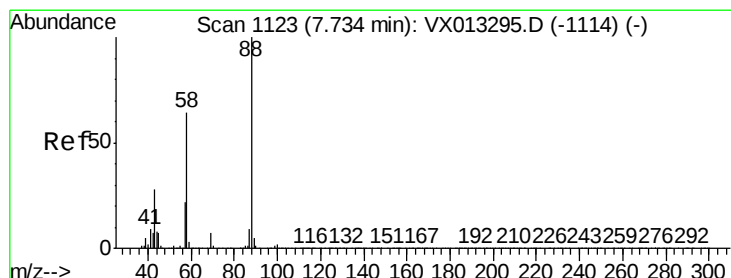
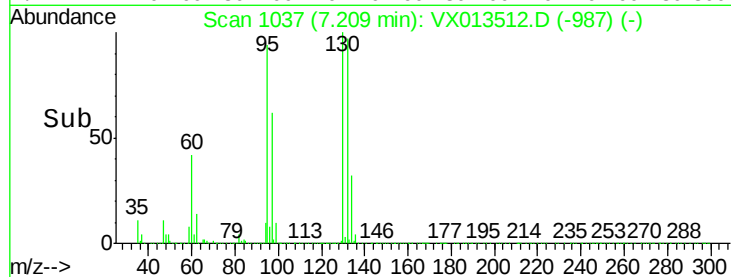
3000000

2000000

1000000

0

Time-->



#49

1,4-Dioxane

Concen: 0.858 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX013512.D

Acq: 21 Nov 2019 18:43

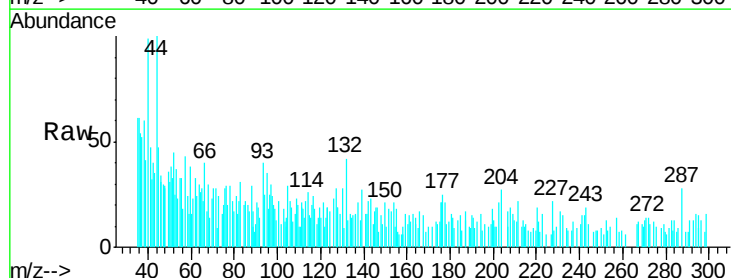
Tgt Ion: 88 Resp: 179

Ion Ratio Lower Upper

88 100

43 615.6 26.6 39.8#

58 79.9 55.0 82.6



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

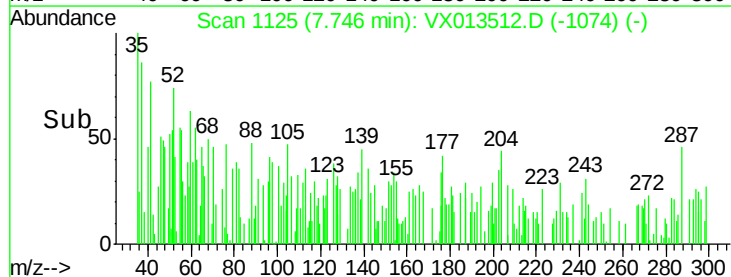
600

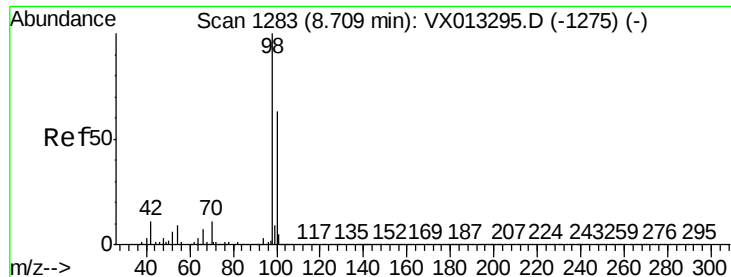
400

200

0

Time-->





#50

Toluene-d8

Concen: 50.796 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013512.D

Acq: 21 Nov 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

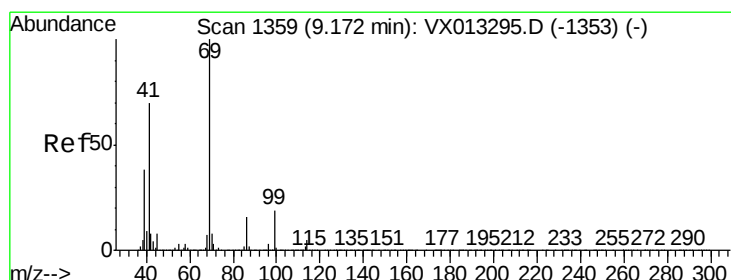
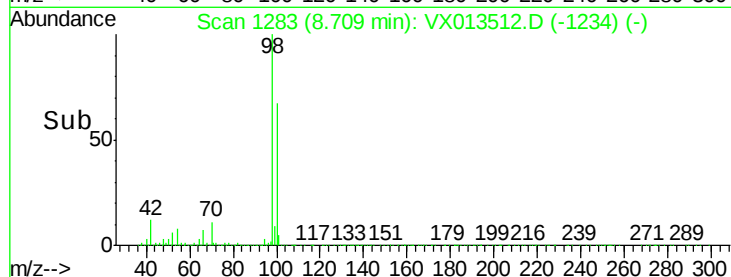
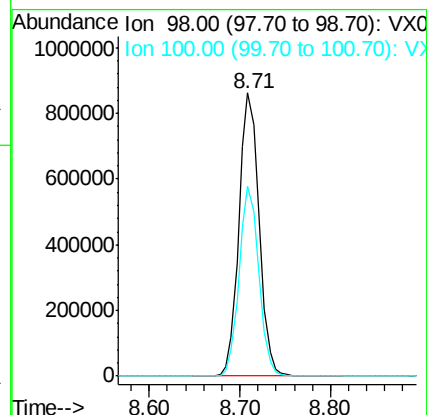
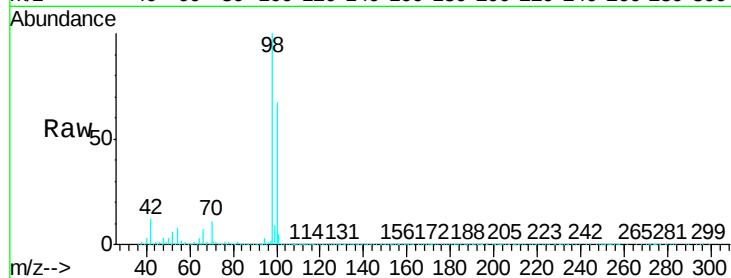
20BR-20191120

Tgt Ion: 98 Resp: 1327179

Ion Ratio Lower Upper

98 100

100 65.5 52.2 78.2



#56

Ethyl methacrylate

Concen: 1.575 ug/l

RT: 9.21 min Scan# 1365

Delta R.T. 0.04 min

Lab File: VX013512.D

Acq: 21 Nov 2019 18:43

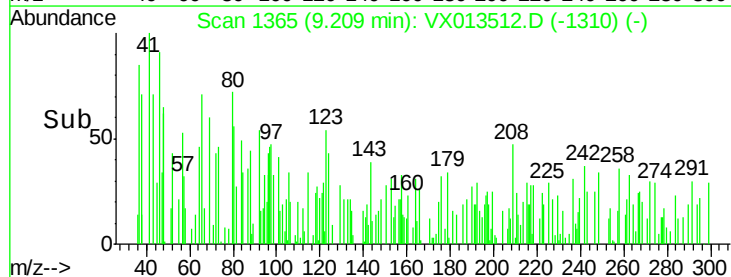
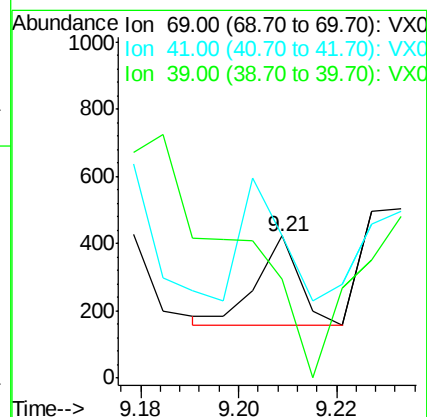
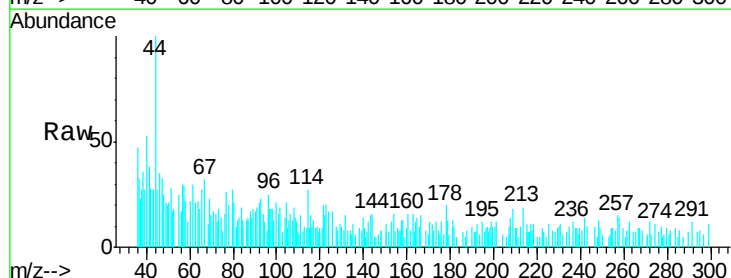
Tgt Ion: 69 Resp: 162

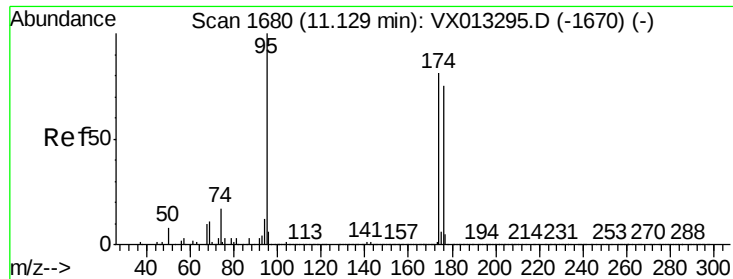
Ion Ratio Lower Upper

69 100

41 127.2 56.2 84.2#

39 0.0 31.1 46.7#

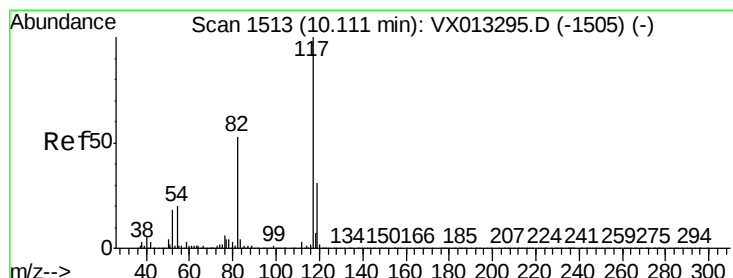
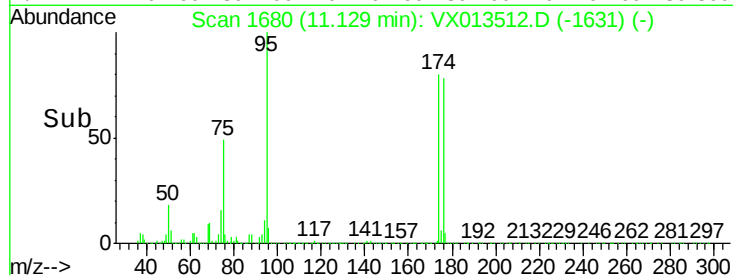
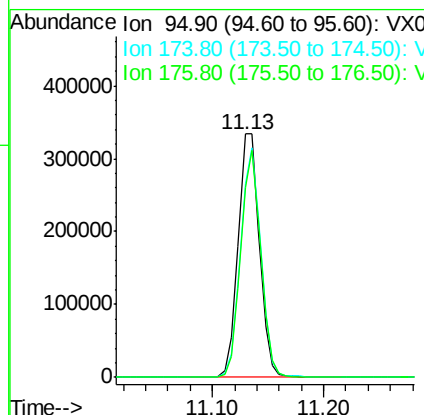
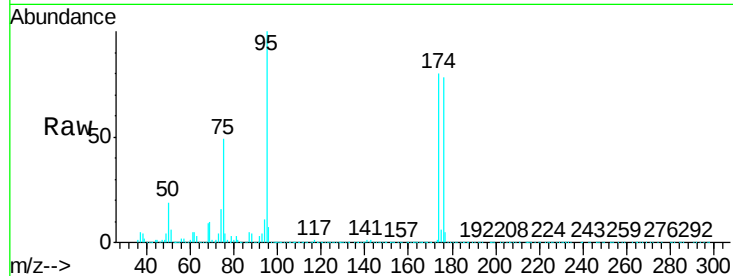




#62
4-Bromofluorobenzene
Concen: 47.018 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX013512.D
Acq: 21 Nov 2019 18:43

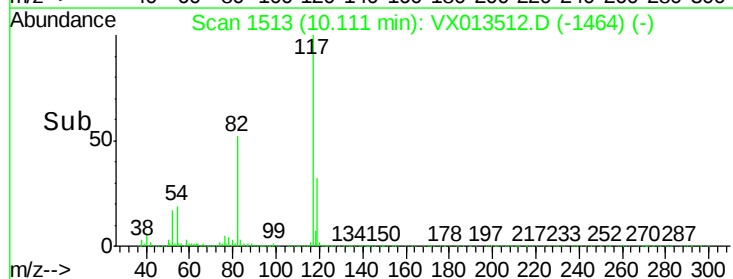
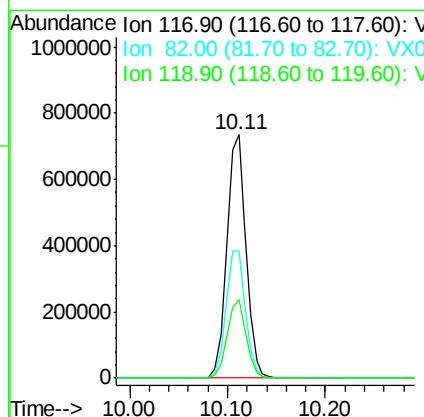
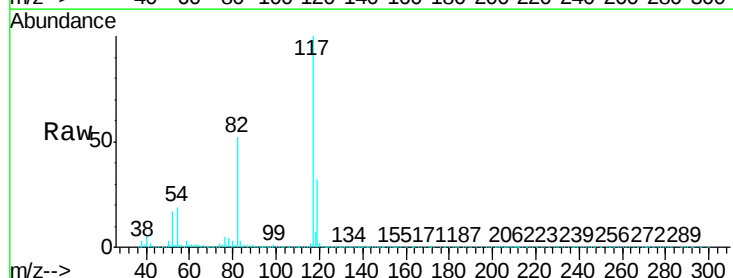
Instrument :
MSVOA_X
ClientSampleId :
20BR-20191120

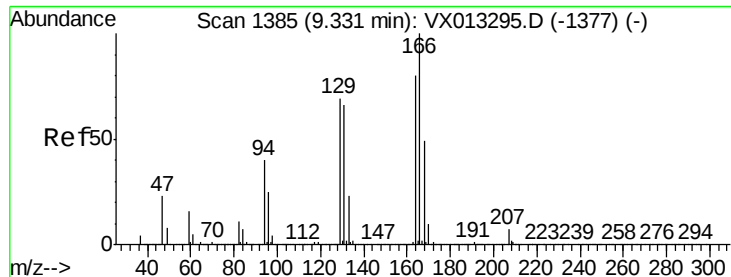
Tgt Ion	Ratio	Lower	Upper
95	100		
174	90.1	0.0	179.8
176	88.0	0.0	173.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013512.D
Acq: 21 Nov 2019 18:43

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.1	42.6	64.0
119	32.1	24.8	37.2





#64

Tetrachloroethene

Concen: 0.301 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VX013512.D

Acq: 21 Nov 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

20BR-20191120

Tgt Ion:164 Resp: 2140

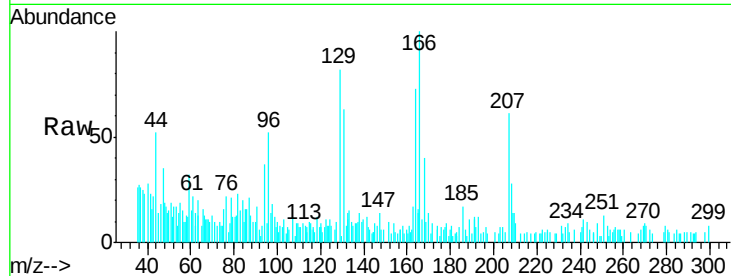
Ion Ratio Lower Upper

164 100

166 129.6 100.4 150.6

129 93.8 69.4 104.2

131 66.2 66.6 100.0#

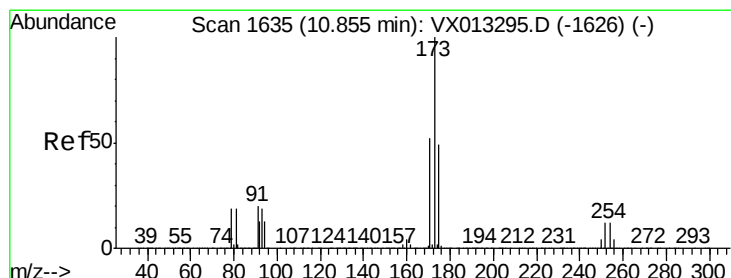
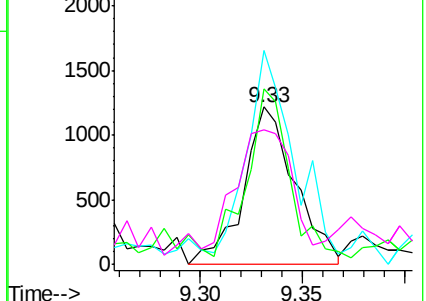
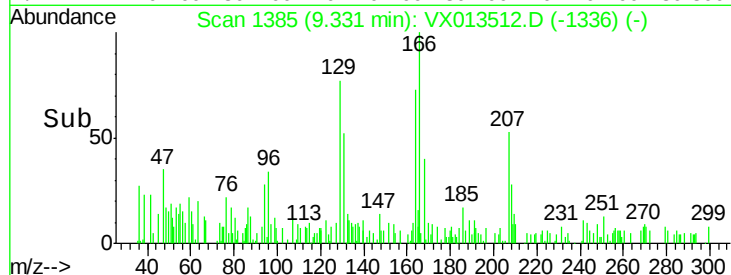


Abundance Ion 163.80 (163.50 to 164.50): V

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



#71

Bromoform

Concen: 3.228 ug/l

RT: 10.84 min Scan# 1633

Delta R.T. -0.01 min

Lab File: VX013512.D

Acq: 21 Nov 2019 18:43

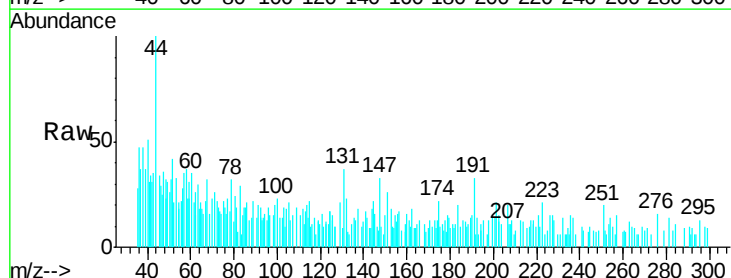
Tgt Ion:173 Resp: 188

Ion Ratio Lower Upper

173 100

175 0.0 24.8 74.4#

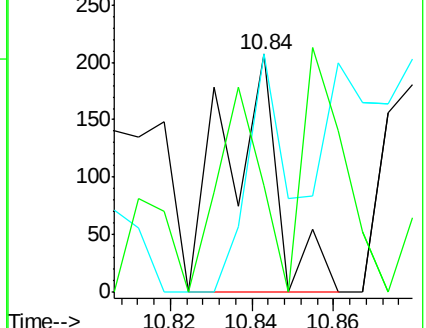
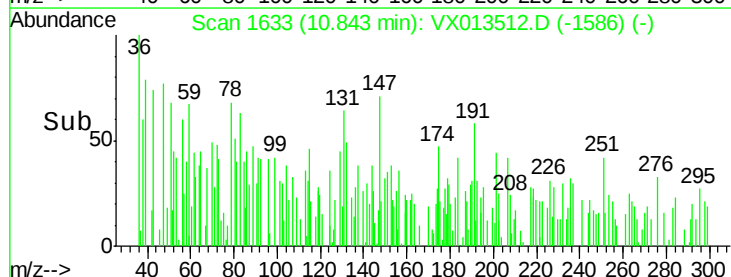
254 98.9 0.2 0.2#

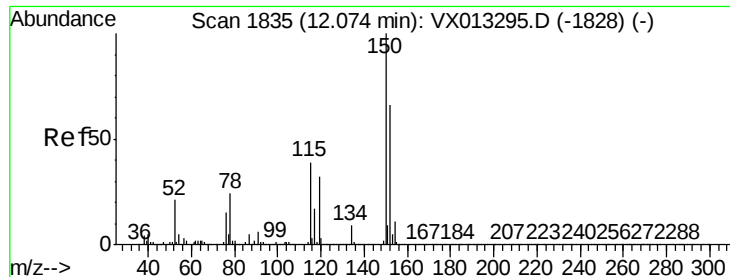


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VX013512.D

Acq: 21 Nov 2019 18:43

Instrument :

MSVOA_X

ClientSampleId :

20BR-20191120

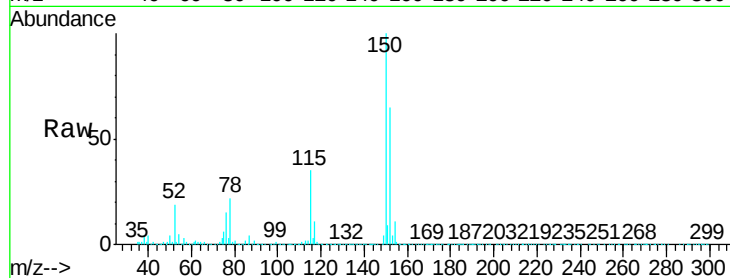
Tgt Ion: 152 Resp: 443867

Ion Ratio Lower Upper

152 100

115 54.9 39.5 118.3

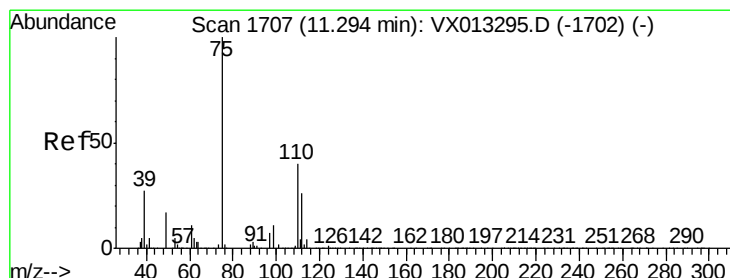
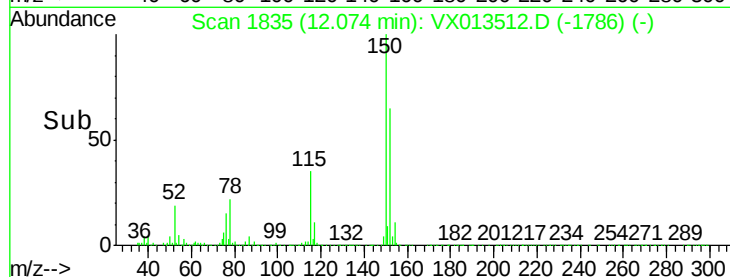
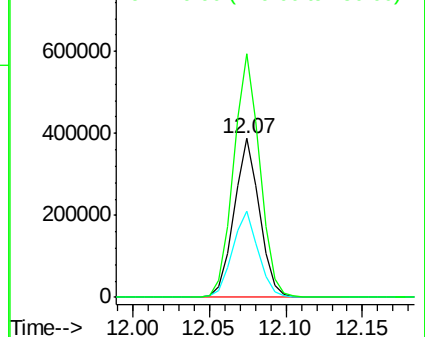
150 157.7 0.0 344.4



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: 24.001 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013512.D

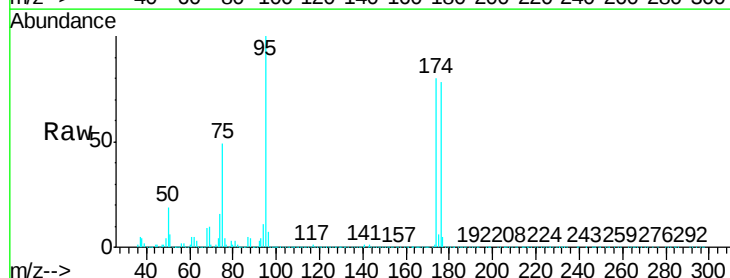
Acq: 21 Nov 2019 18:43

Tgt Ion: 75 Resp: 216385

Ion Ratio Lower Upper

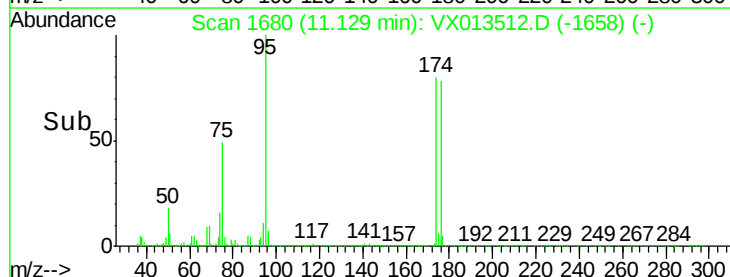
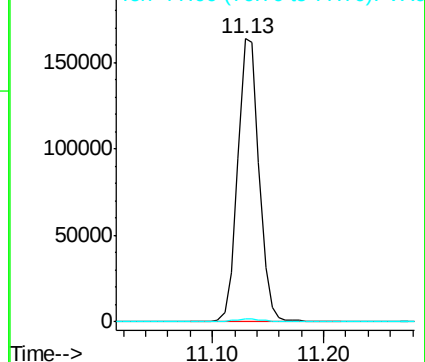
75 100

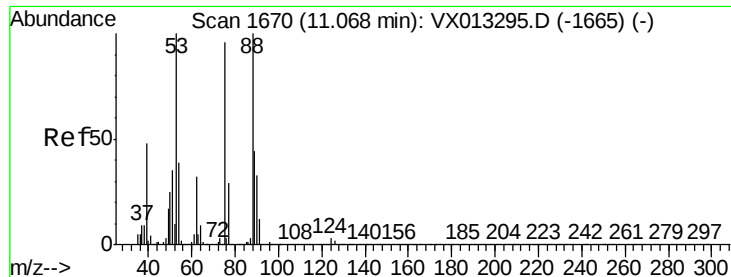
77 1.6 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

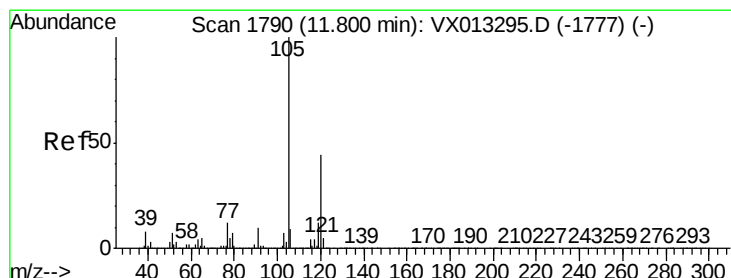
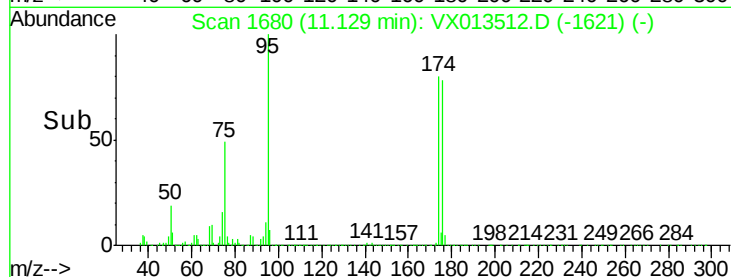
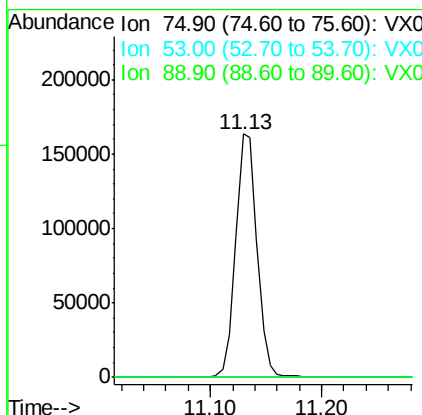
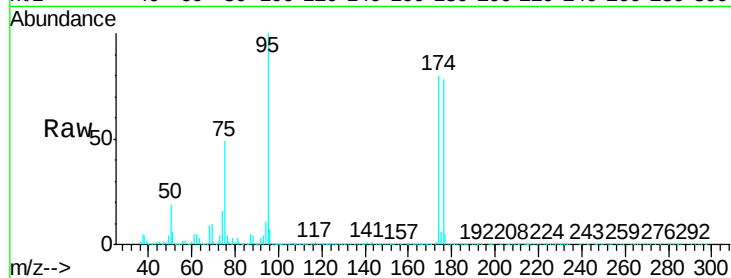




#81
trans-1,4-Dichloro-2-butene
Concen: 61.779 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX013512.D
Acq: 21 Nov 2019 18:43

Instrument :
MSVOA_X
ClientSampleId :
20BR-20191120

Tgt Ion: 75 Resp: 216385
Ion Ratio Lower Upper
75 100
53 0.1 81.0 121.6#
89 0.2 36.0 54.0#



#84
1,2,4-Trimethylbenzene
Concen: 0.205 ug/l
RT: 11.80 min Scan# 1790
Delta R.T. 0.00 min
Lab File: VX013512.D
Acq: 21 Nov 2019 18:43

Tgt Ion: 105 Resp: 5041
Ion Ratio Lower Upper
105 100
120 55.2 22.7 68.1

