

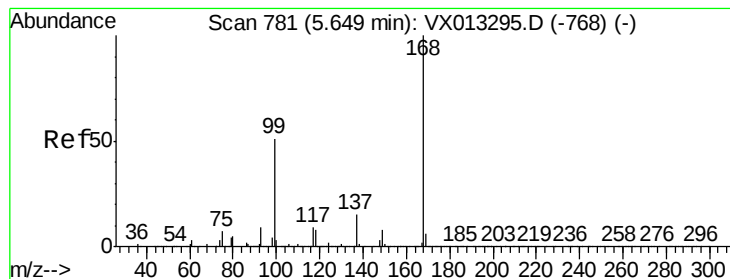
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110819\
 Data File : VX013363.D
 Acq On : 08 Nov 2019 17:25
 Operator : JC/SP
 Sample : K5769-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-311-SRI4

Quant Time: Nov 11 02:58:11 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	810254	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1265308	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1137702	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	533987	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	460414	47.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.92%	
35) Dibromofluoromethane	5.48	113	380371	47.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.86%	
50) Toluene-d8	8.71	98	1516592	50.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.38%	
62) 4-Bromofluorobenzene	11.13	95	516818	47.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.72%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.17	85	2017	0.216	ug/l	73
6) Chloroethane	1.69	64	1317	Below Cal	#	43
9) 1,1,2-Trichlorotrifluoroet	2.37	101	88588	11.672	ug/l	99
11) Tert butyl alcohol	3.07	59	913	0.361	ug/l #	73
12) 1,1-Dichloroethene	2.37	96	4691	0.631	ug/l	82
16) Acetone	2.43	43	7149	1.493	ug/l	99
17) Carbon Disulfide	2.56	76	44825	2.253	ug/l	99
19) Methyl tert-butyl Ether	3.18	73	75568	3.048	ug/l	98
24) 1,1-Dichloroethane	3.70	63	3225	0.221	ug/l #	60
27) cis-1,2-Dichloroethene	4.59	96	5974	0.659	ug/l	91
30) Chloroform	5.20	83	39352	2.733	ug/l	92
36) 1,1-Dichloropropene	5.65	75	53595	4.937	ug/l #	51
38) Carbon Tetrachloride	5.78	117	6198	0.584	ug/l #	91
42) 1,2-Dichloroethane	6.17	62	2559	0.210	ug/l	94
44) Trichloroethene	7.20	130	180718	19.417	ug/l	97
49) 1,4-Dioxane	7.73	88	117	0.490	ug/l #	1
56) Ethyl methacrylate	9.16	69	466	1.593	ug/l #	73
60) Dibromochloromethane	9.33	129	95701	10.773	ug/l #	11
64) Tetrachloroethene	9.33	164	108987	13.382	ug/l	97
71) Bromoform	10.86	173	255	3.233	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	252106	23.244	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	252106	59.830	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX013363.D

Acq: 08 Nov 2019 17:25

Instrument :

MSVOA_X

ClientSampleId :

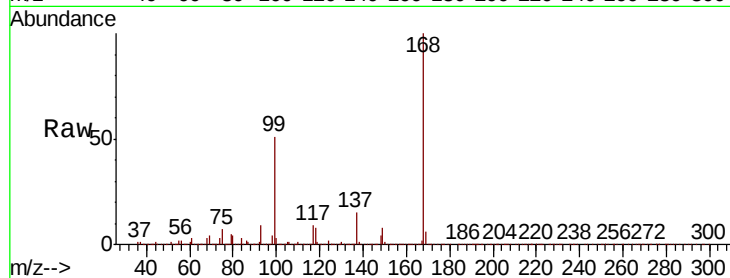
MW-311-SRI4

Tot Ion:168 Resp: 810254

Ion Ratio Lower Upper

168 100

99 51.4 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

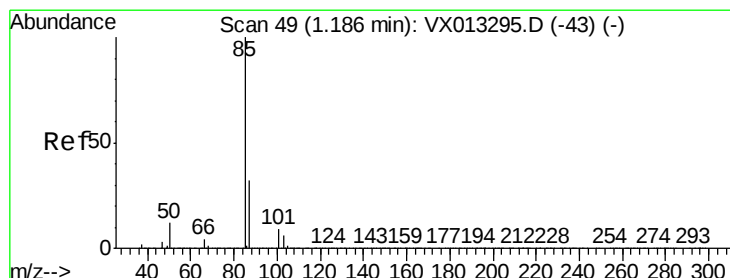
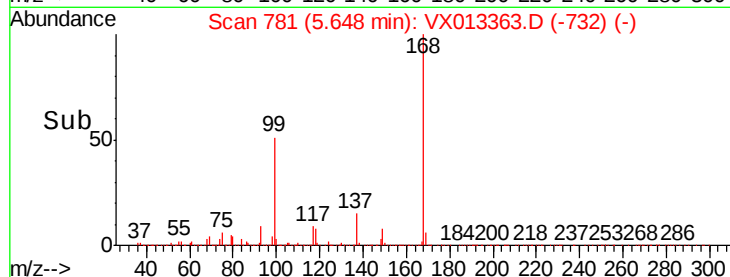
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.216 ug/l

RT: 1.17 min Scan# 46

Delta R.T. -0.02 min

Lab File: VX013363.D

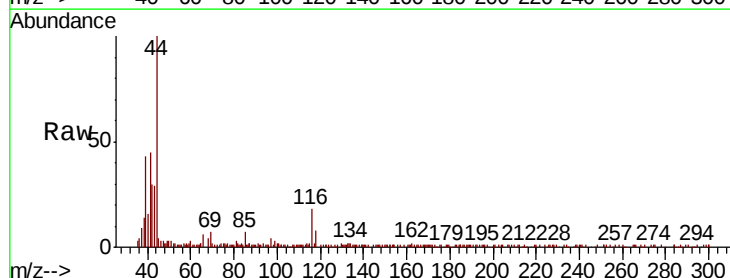
Acq: 08 Nov 2019 17:25

Tgt Ion: 85 Resp: 2017

Ion Ratio Lower Upper

85 100

87 46.5 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.17

1200

1000

800

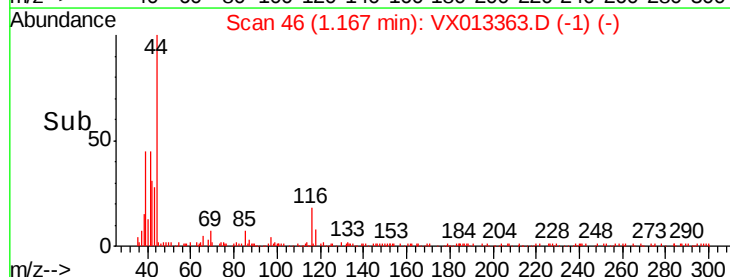
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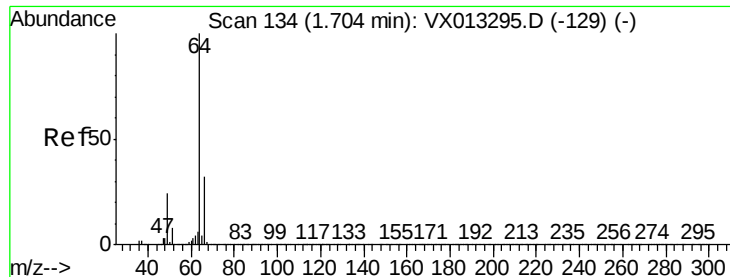
400

200

0

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 131

Delta R.T. -0.02 min

Lab File: VX013363.D

Acq: 08 Nov 2019 17:25

Instrument :

MSVOA_X

ClientSampleId :

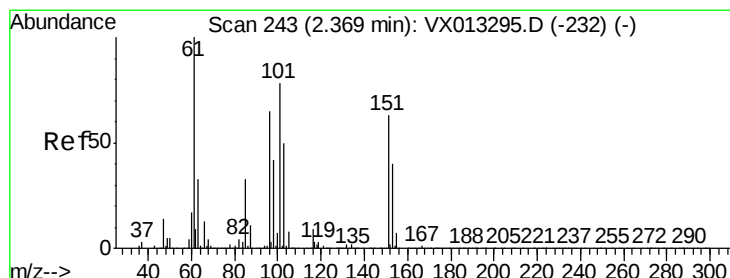
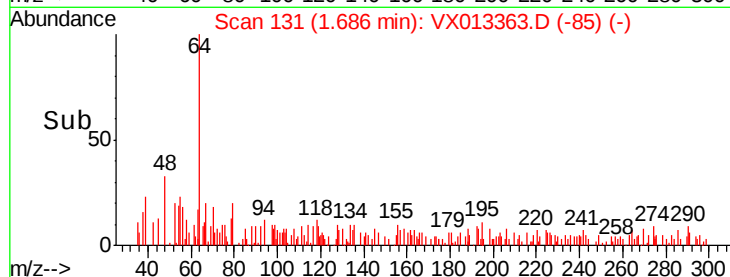
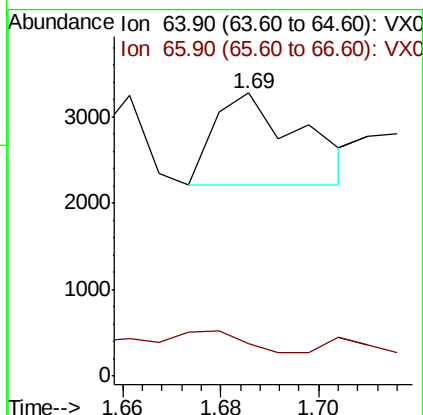
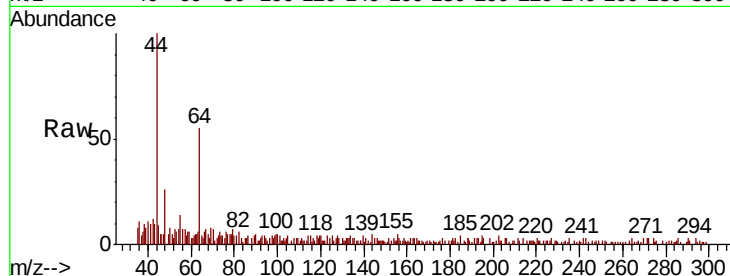
MW-311-SRI4

Tot Ion: 64 Resp: 1317

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 11.672 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX013363.D

Acq: 08 Nov 2019 17:25

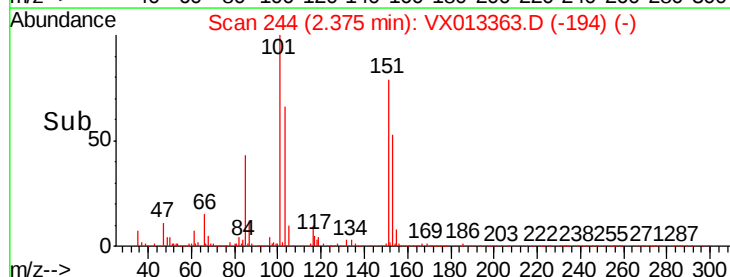
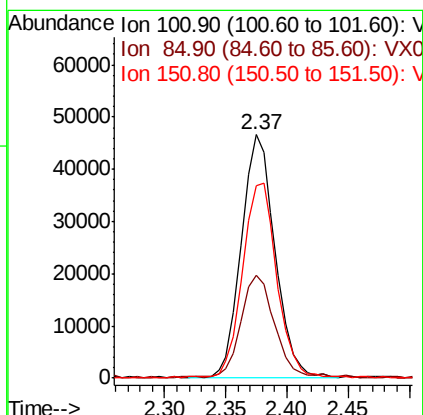
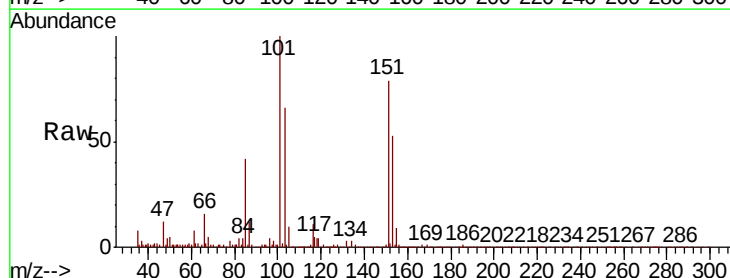
Tgt Ion: 101 Resp: 88588

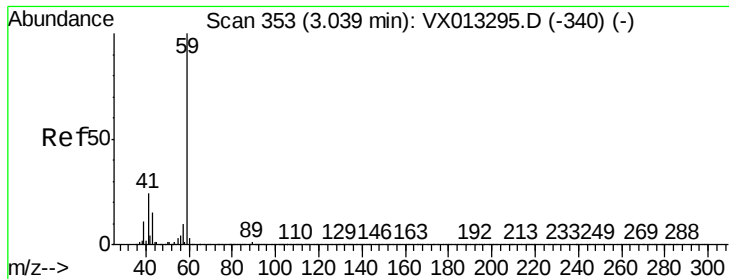
Ion Ratio Lower Upper

101 100

85 41.9 34.4 51.6

151 81.9 66.4 99.6



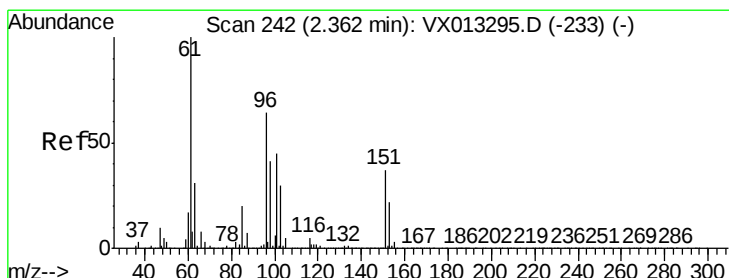
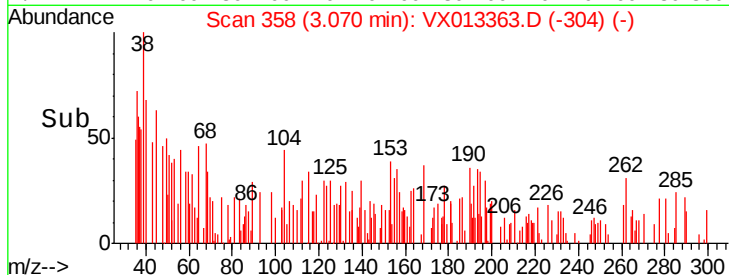
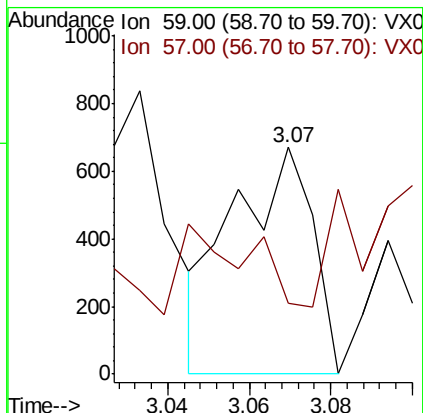
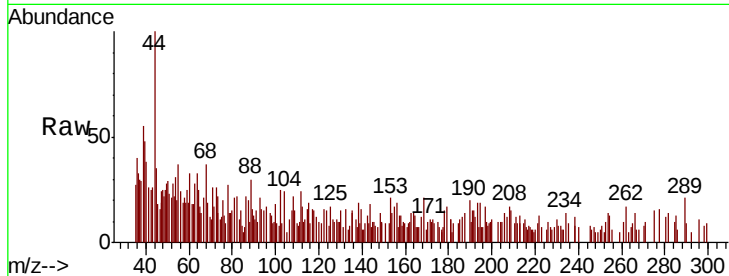


#11

Tert butyl alcohol
Concen: 0.361 ug/l
RT: 3.07 min Scan# 358
Delta R.T. 0.03 min
Lab File: VX013363.D
Acq: 08 Nov 2019 17:25

Instrument :
MSVOA_X
ClientSampleId :
MW-311-SRI4

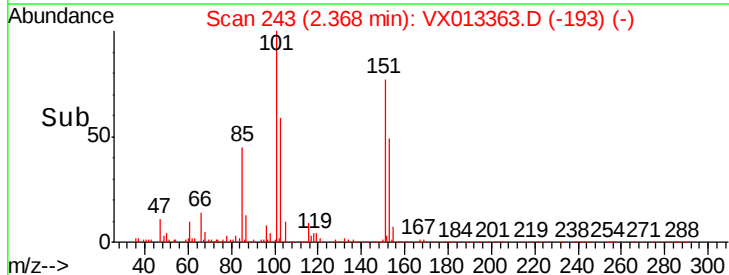
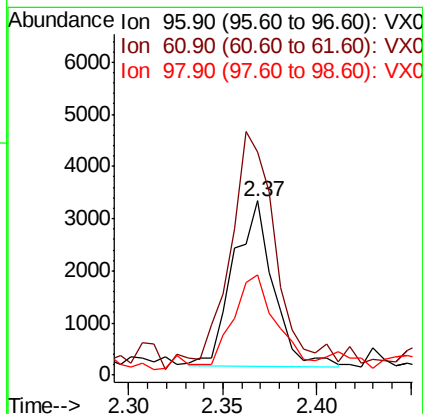
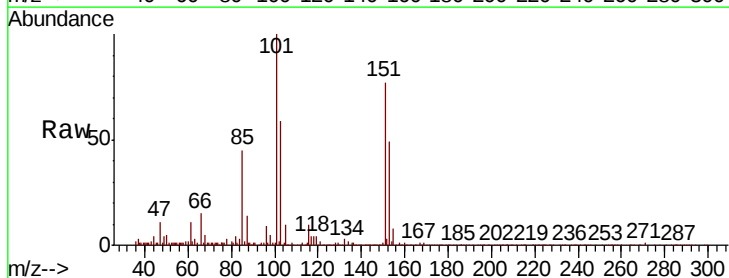
Tot Ion: 59 Resp: 913
Ion Ratio Lower Upper
59 100
57 0.0 8.0 12.0#

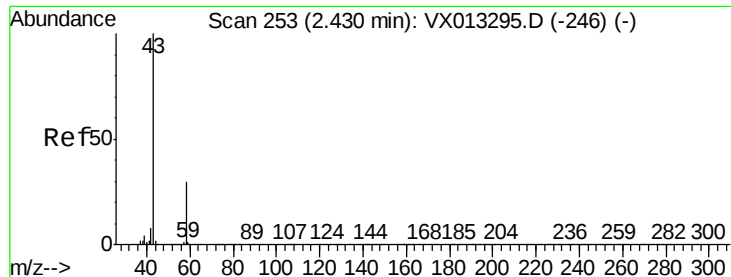


#12

1,1-Dichloroethene
Concen: 0.631 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.01 min
Lab File: VX013363.D
Acq: 08 Nov 2019 17:25

Tgt Ion: 96 Resp: 4691
Ion Ratio Lower Upper
96 100
61 129.5 125.0 187.6
98 54.6 50.7 76.1





#16

Acetone

Concen: 1.493 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013363.D

Acq: 08 Nov 2019 17:25

Instrument :

MSVOA_X

ClientSampled :

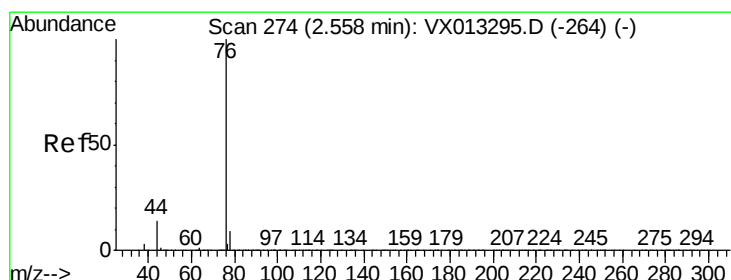
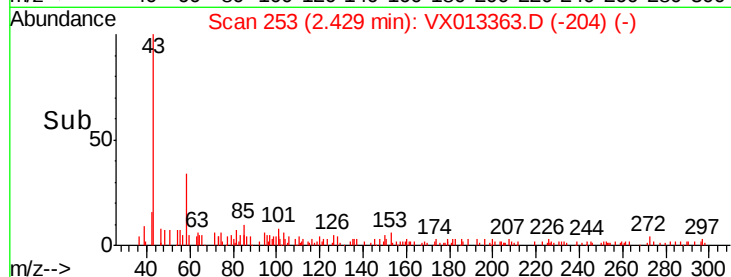
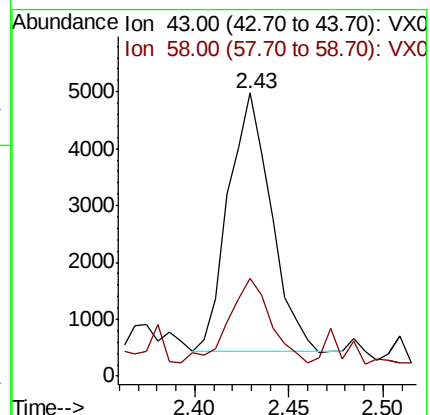
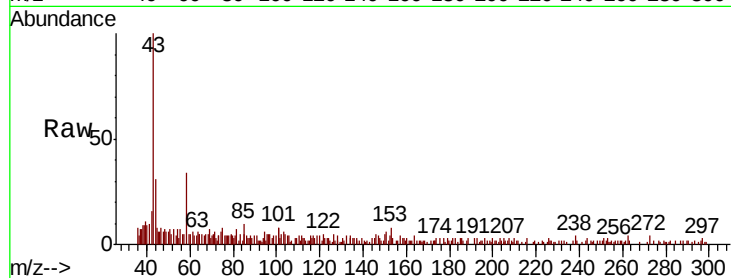
MW-311-SRI4

Tot Ion: 43 Resp: 7149

Ion Ratio Lower Upper

43 100

58 30.8 24.3 36.5



#17

Carbon Disulfide

Concen: 2.253 ug/l

RT: 2.56 min Scan# 274

Delta R.T. -0.00 min

Lab File: VX013363.D

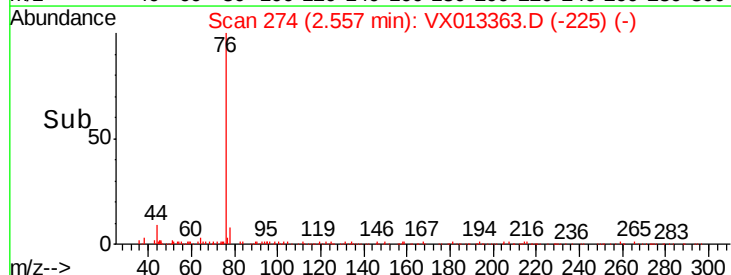
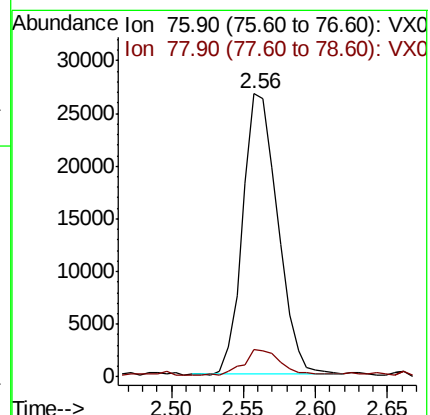
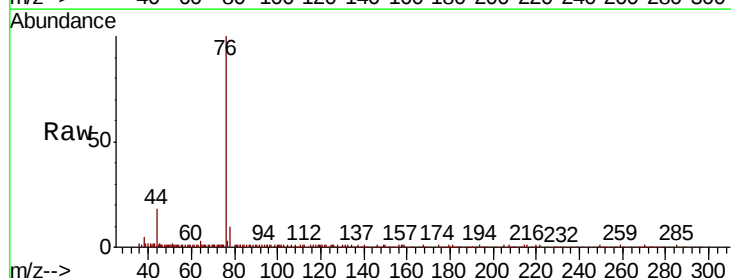
Acq: 08 Nov 2019 17:25

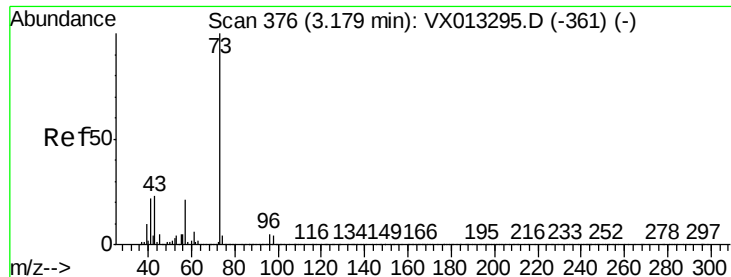
Tgt Ion: 76 Resp: 44825

Ion Ratio Lower Upper

76 100

78 9.2 7.0 10.6

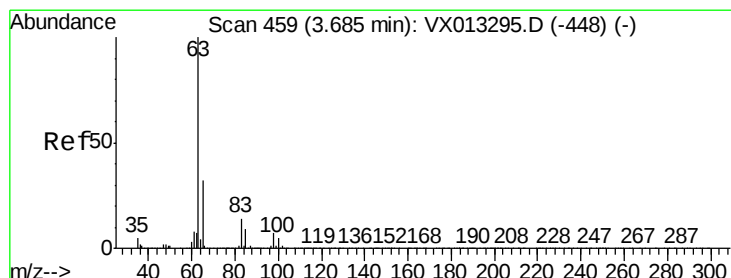
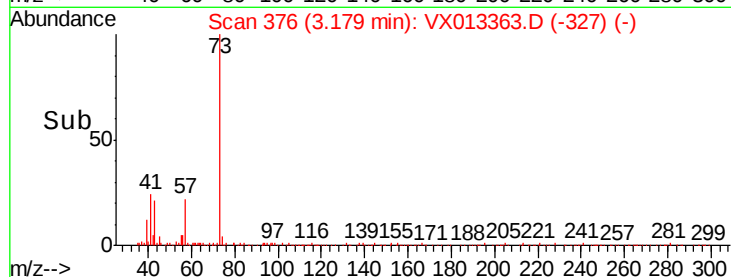
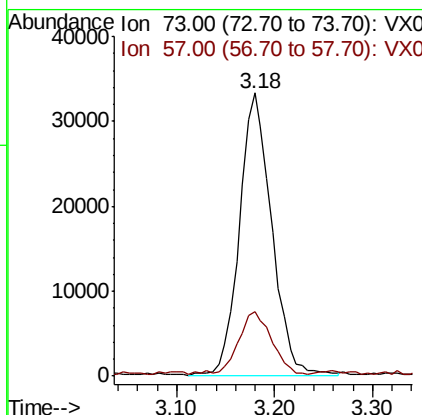
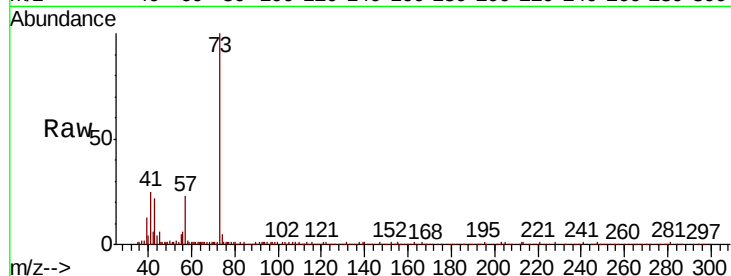




#19
Methvl tert-butvl Ether
Concen: 3.048 ug/l
RT: 3.18 min Scan# 376
Delta R.T. -0.00 min
Lab File: VX013363.D
Acq: 08 Nov 2019 17:25

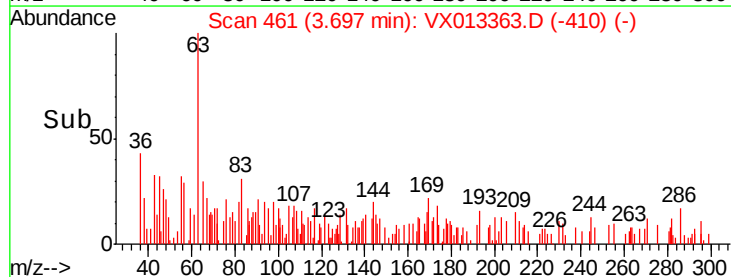
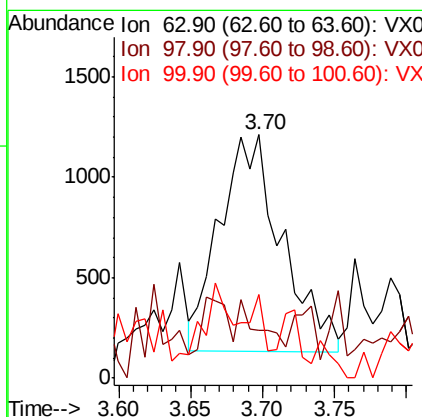
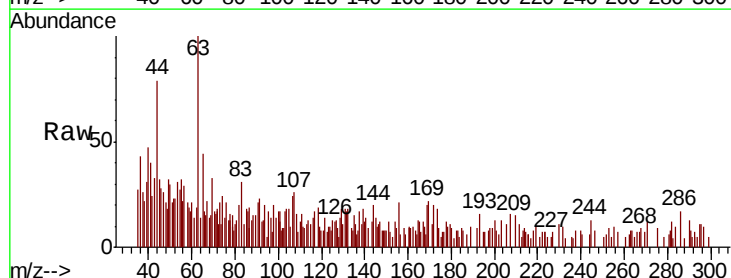
Instrument :
MSVOA_X
ClientSampleId :
MW-311-SRI4

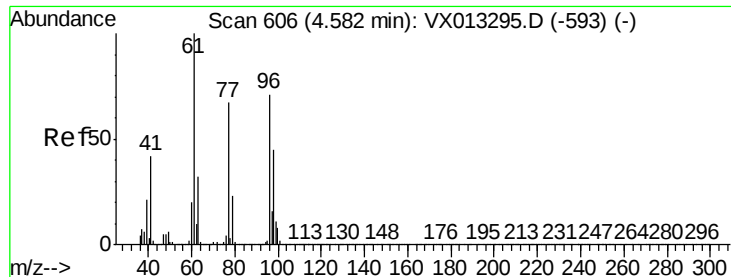
Tot Ion: 73 Resp: 75568
Ion Ratio Lower Upper
73 100
57 22.2 17.1 25.7



#24
1,1-Dichloroethane
Concen: 0.221 ug/l
RT: 3.70 min Scan# 461
Delta R.T. 0.01 min
Lab File: VX013363.D
Acq: 08 Nov 2019 17:25

Tgt Ion: 63 Resp: 3225
Ion Ratio Lower Upper
63 100
98 13.1 3.5 10.4#
100 28.6 2.4 7.2#



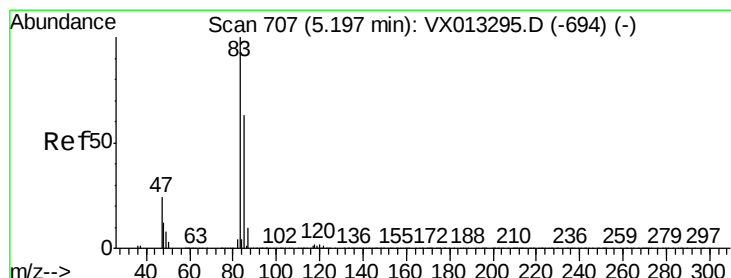
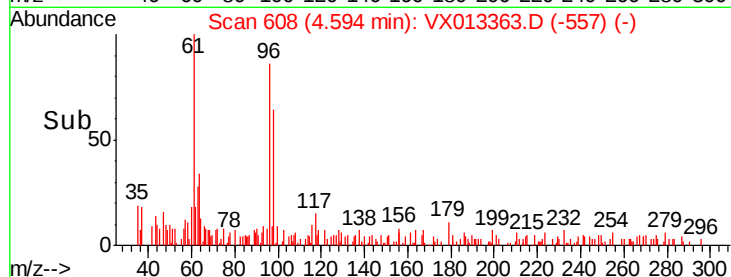
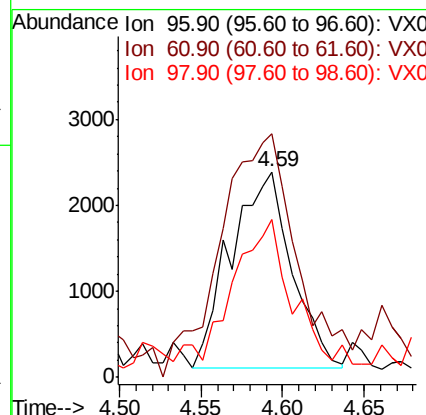
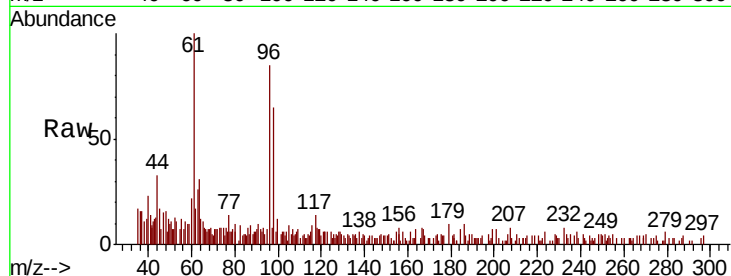


#27

cis-1,2-Dichloroethene
Concen: 0.659 ug/l
RT: 4.59 min Scan# 608
Delta R.T. 0.01 min
Lab File: VX013363.D
Acq: 08 Nov 2019 17:25

Instrument :
MSVOA_X
ClientSampleId :
MW-311-SRI4

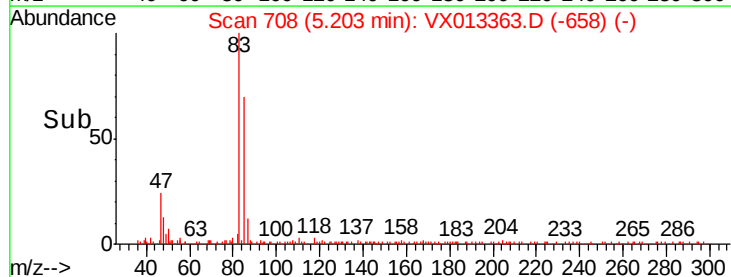
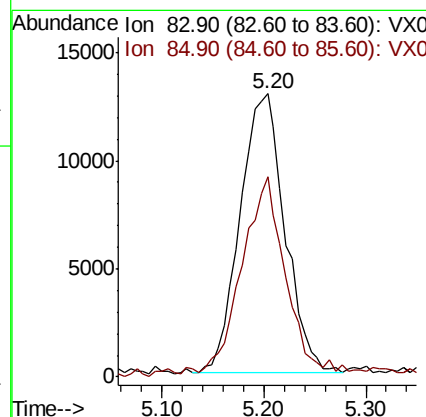
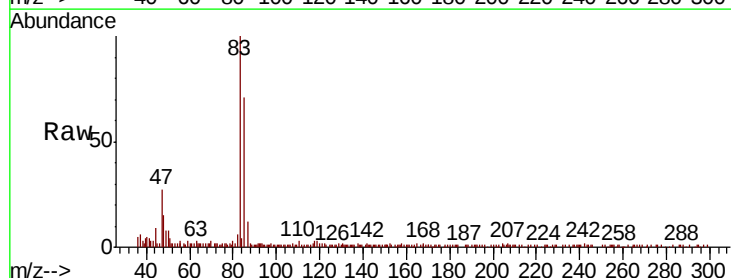
Tot Ion	Ratio	Lower	Upper
96	100		
61	156.4	0.0	288.0
98	70.9	0.0	129.6

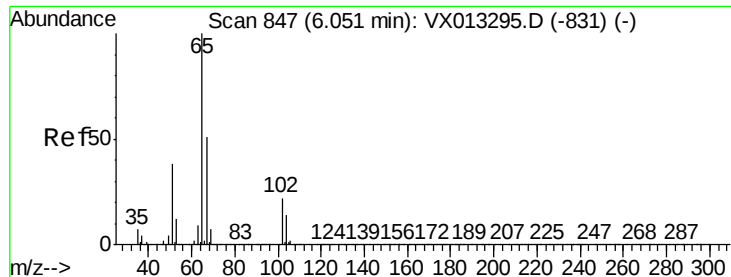


#30

Chloroform
Concen: 2.733 ug/l
RT: 5.20 min Scan# 708
Delta R.T. 0.01 min
Lab File: VX013363.D
Acq: 08 Nov 2019 17:25

Tgt Ion	Ratio	Lower	Upper
83	100		
85	69.2	50.2	75.4





#33

1,2-Dichloroethane-d4

Concen: 47.964 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013363.D

Acq: 08 Nov 2019 17:25

Instrument :

MSVOA_X

ClientSampleId :

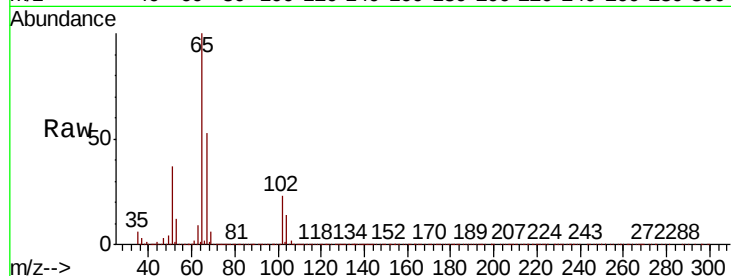
MW-311-SRI4

Tot Ion: 65 Resp: 460414

Ion Ratio Lower Upper

65 100

67 51.9 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

200000

150000

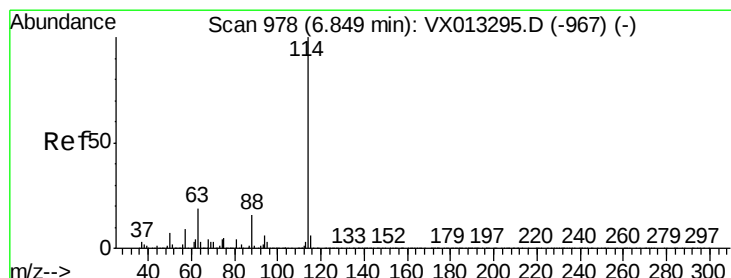
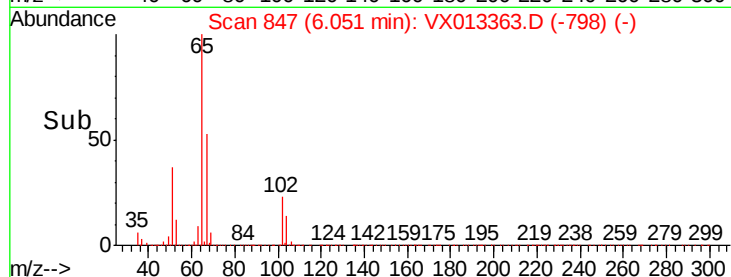
100000

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: VX013363.D

Acq: 08 Nov 2019 17:25

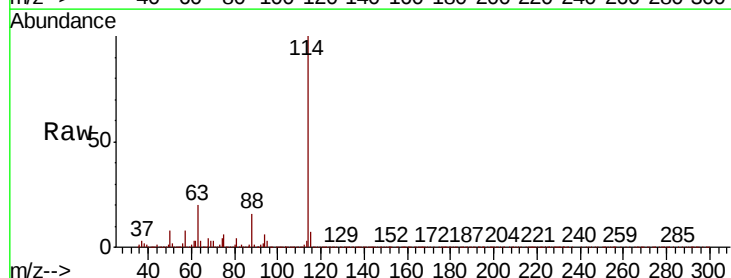
Tgt Ion: 114 Resp: 1265308

Ion Ratio Lower Upper

114 100

63 19.5 0.0 38.4

88 15.5 0.0 32.2



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

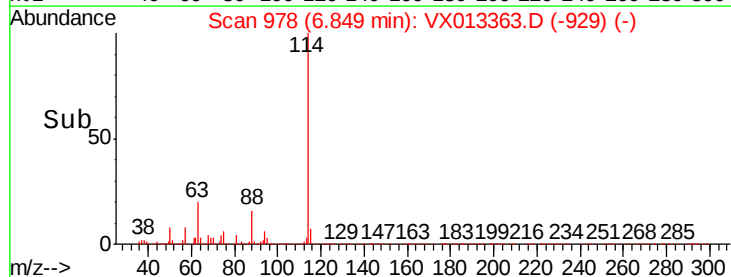
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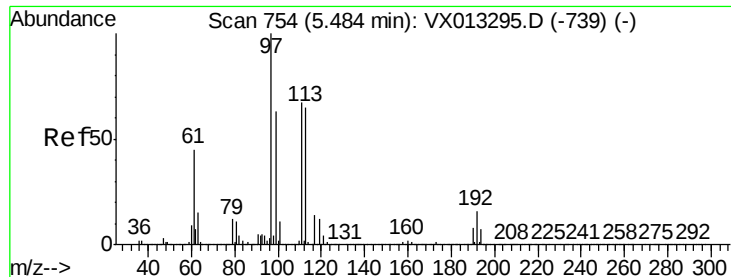
200000

0

Time-->

6.70 6.80 6.90 7.00

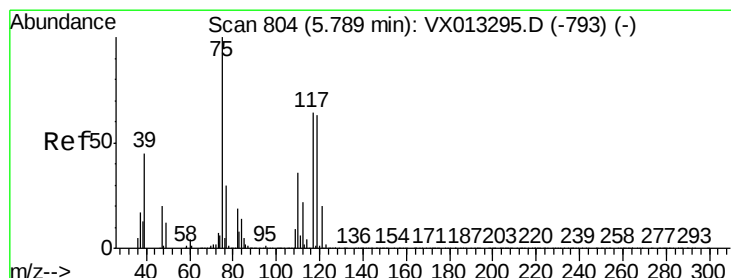
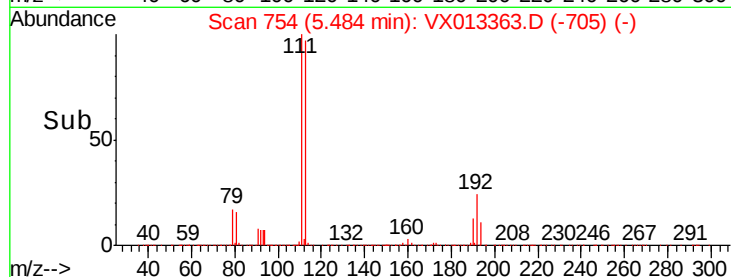
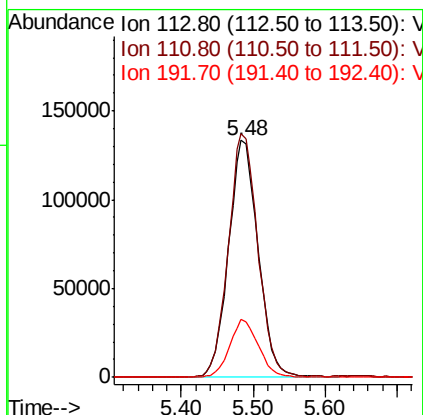
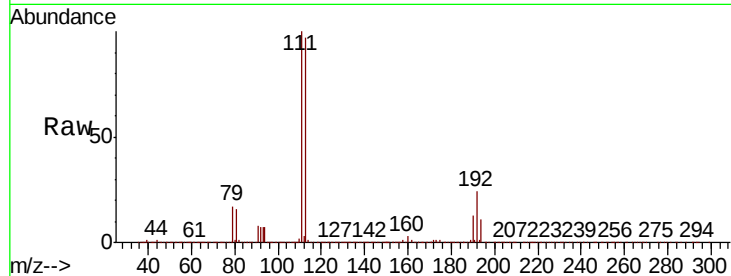




#35
 Dibromofluoromethane
 Concen: 47.929 ug/l
 RT: 5.48 min Scan# 754
 Delta R.T. -0.00 min
 Lab File: VX013363.D
 Acq: 08 Nov 2019 17:25

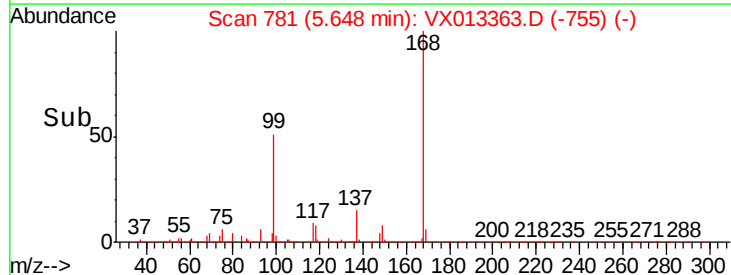
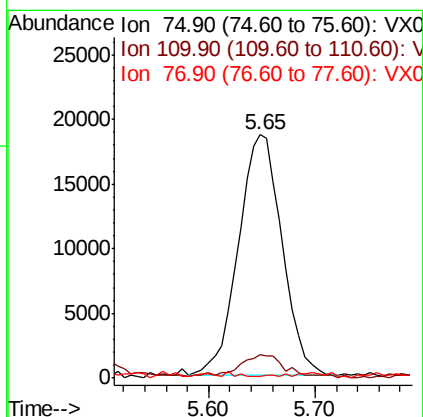
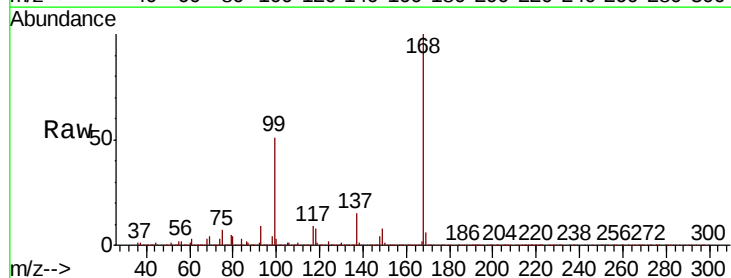
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-311-SRI4

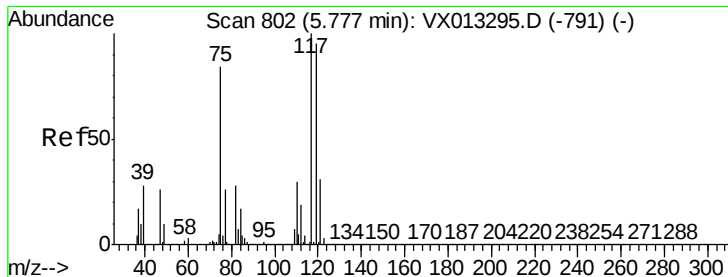
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.9	122.9
192	24.0	19.1	28.7



#36
 1,1-Dichloropropene
 Concen: 4.937 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013363.D
 Acq: 08 Nov 2019 17:25

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.2	18.1	54.1#
77	0.3	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 0.584 ug/l

RT: 5.78 min Scan# 802

Delta R.T. -0.00 min

Lab File: VX013363.D

Acq: 08 Nov 2019 17:25

Instrument :

MSVOA_X

ClientSampleId :

MW-311-SRI4

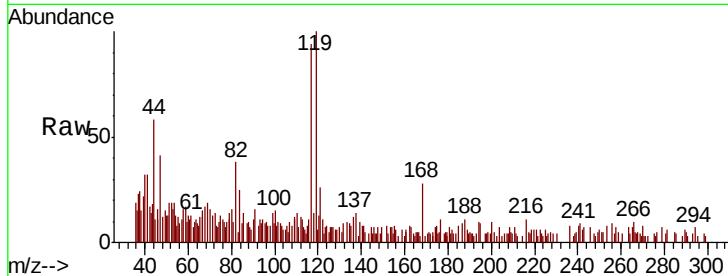
Tot Ion:117 Resp: 6198

Ion Ratio Lower Upper

117 100

119 95.1 76.1 114.1

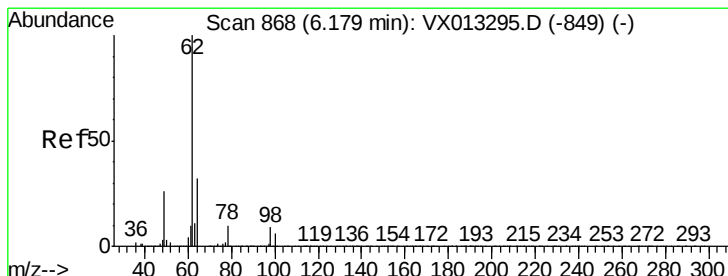
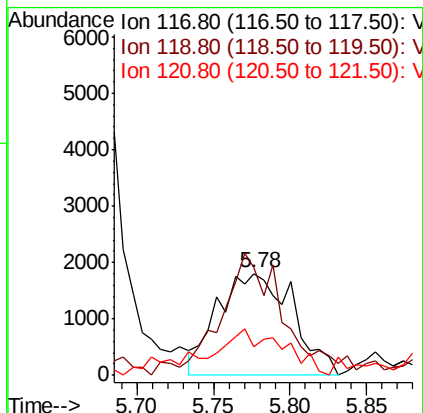
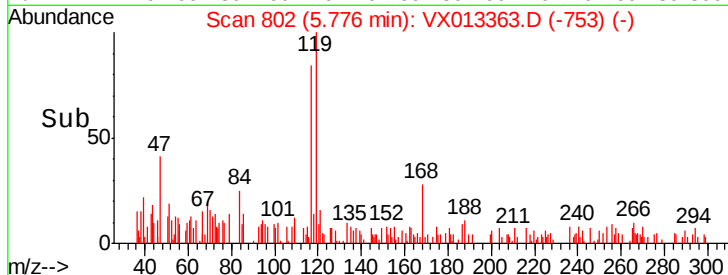
121 9.9 24.6 37.0#



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: 0.210 ug/l

RT: 6.17 min Scan# 867

Delta R.T. -0.01 min

Lab File: VX013363.D

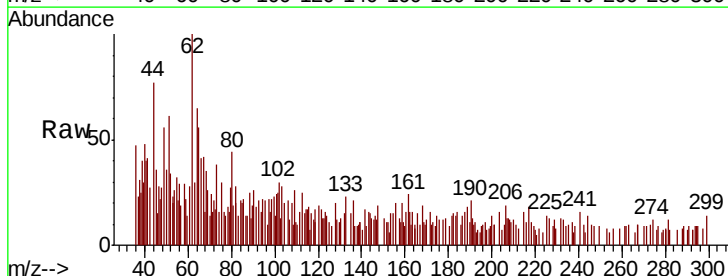
Acq: 08 Nov 2019 17:25

Tgt Ion: 62 Resp: 2559

Ion Ratio Lower Upper

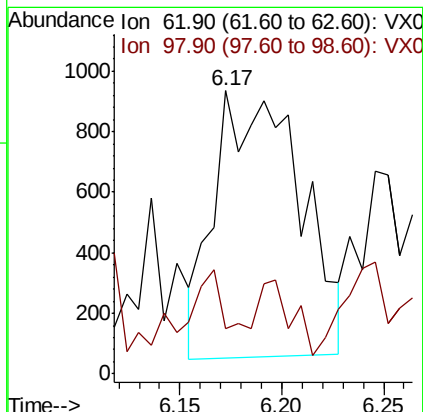
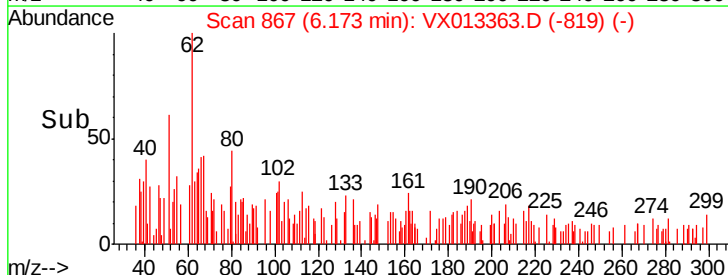
62 100

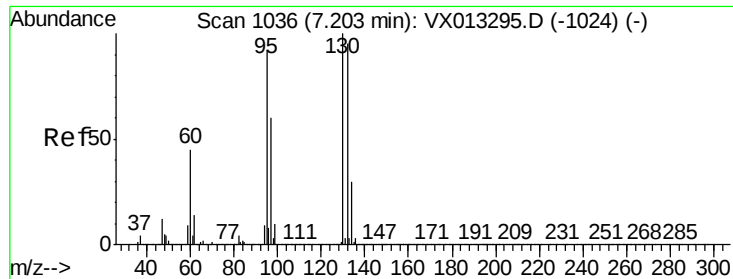
98 12.0 0.0 19.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 19.417 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.00 min

Lab File: VX013363.D

Acq: 08 Nov 2019 17:25

Instrument :

MSVOA_X

ClientSampleId :

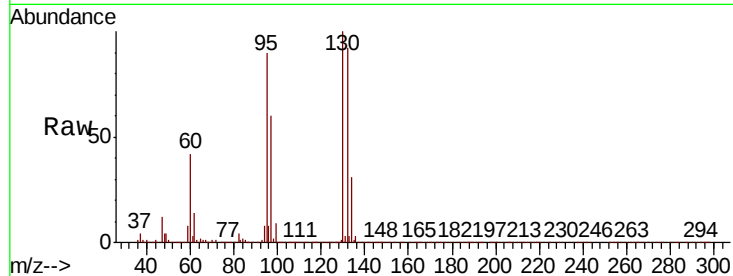
MW-311-SRI4

Tot Ion:130 Resp: 180718

Ion Ratio Lower Upper

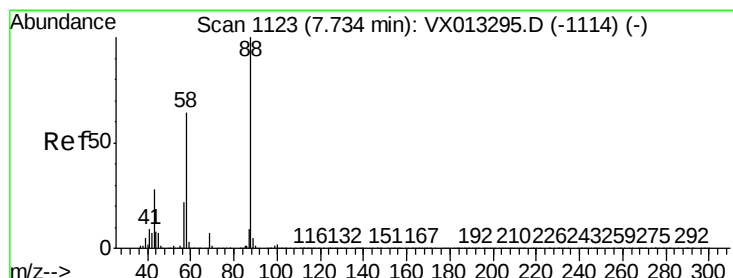
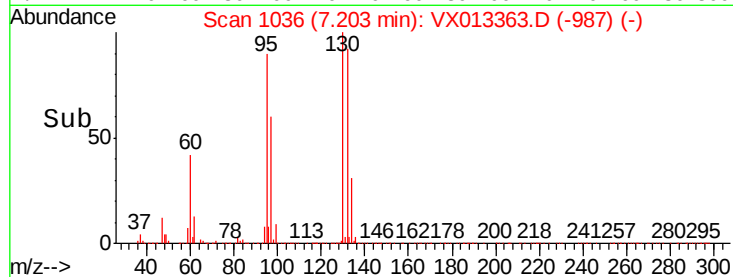
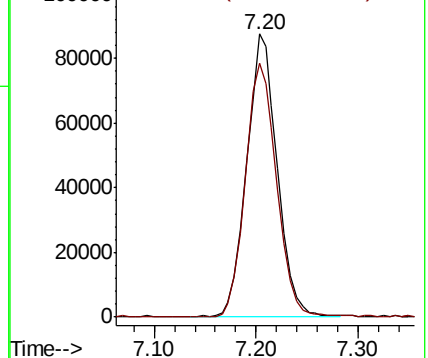
130 100

95 89.4 0.0 184.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.490 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VX013363.D

Acq: 08 Nov 2019 17:25

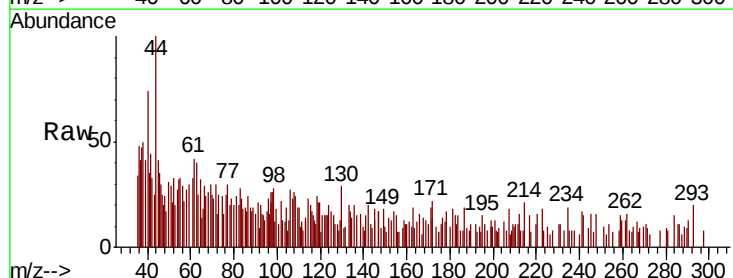
Tgt Ion: 88 Resp: 117

Ion Ratio Lower Upper

88 100

43 394.9 26.6 39.8#

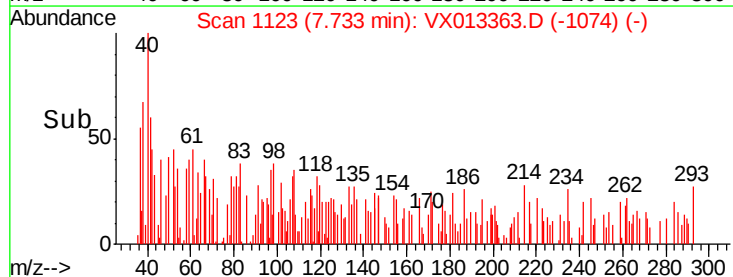
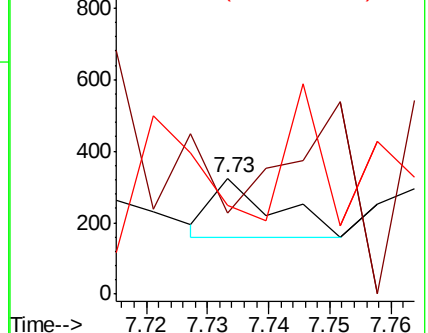
58 315.4 55.0 82.6#

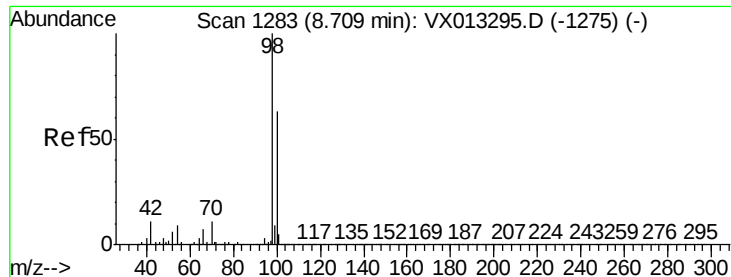


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.691 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013363.D

Acq: 08 Nov 2019 17:25

Instrument :

MSVOA_X

ClientSampleId :

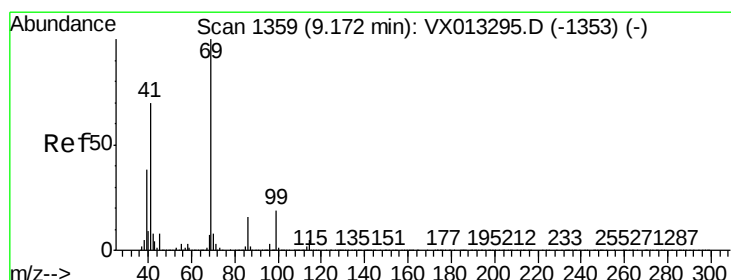
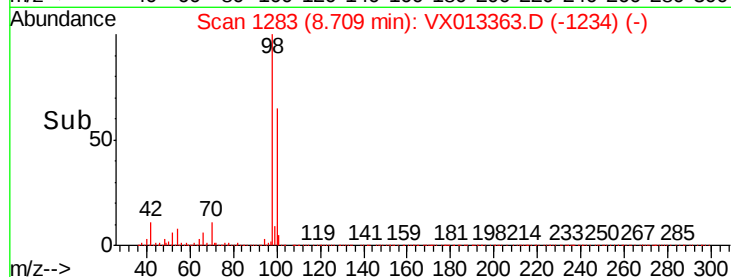
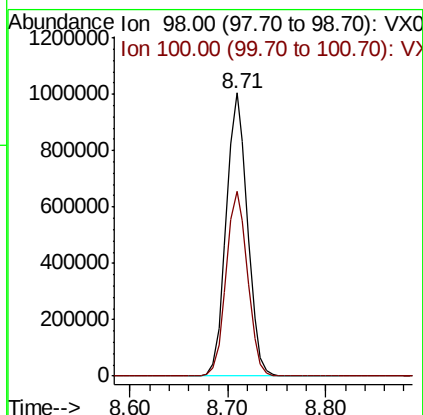
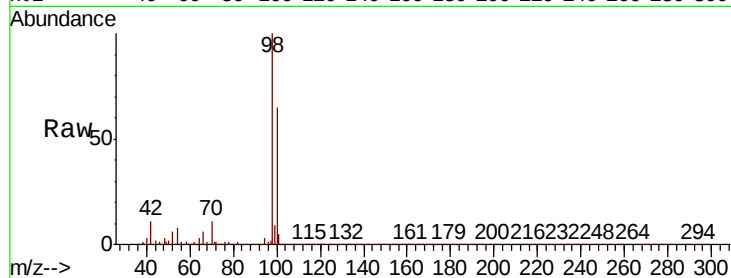
MW-311-SRI4

Tot Ion: 98 Resp: 1516592

Ion Ratio Lower Upper

98 100

100 65.8 52.2 78.2



#56

Ethyl methacrylate

Concen: 1.593 ug/l

RT: 9.16 min Scan# 1357

Delta R.T. -0.01 min

Lab File: VX013363.D

Acq: 08 Nov 2019 17:25

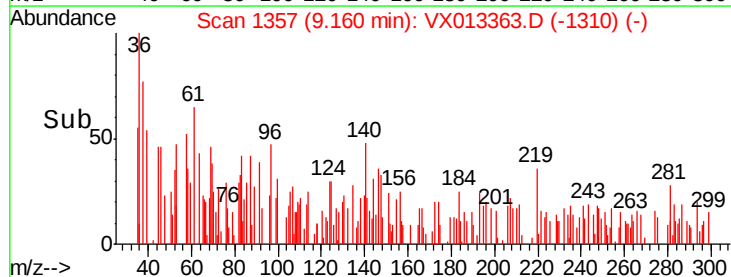
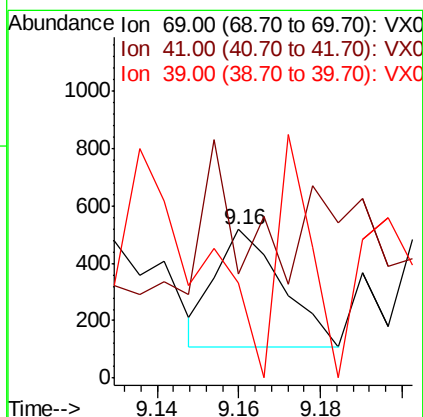
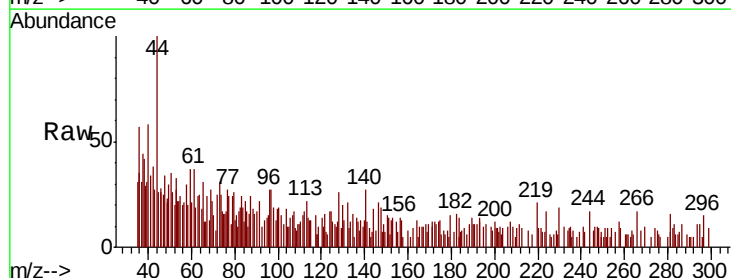
Tgt Ion: 69 Resp: 466

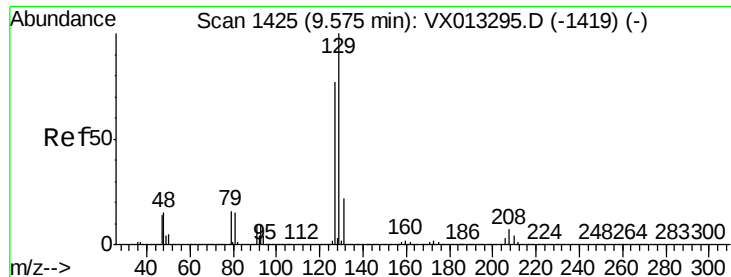
Ion Ratio Lower Upper

69 100

41 76.0 56.2 84.2

39 0.0 31.1 46.7#





#60

Dibromochloromethane

Concen: 10.773 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.24 min

Lab File: VX013363.D

Acq: 08 Nov 2019 17:25

Instrument :

MSVOA_X

ClientSampleId :

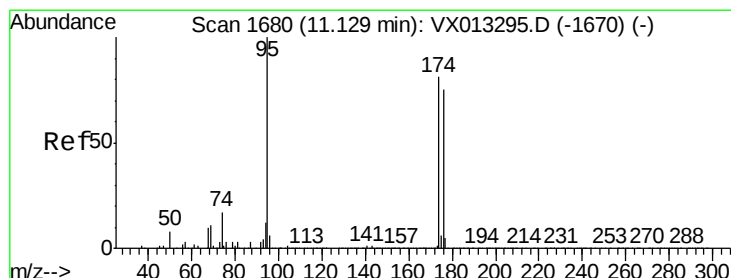
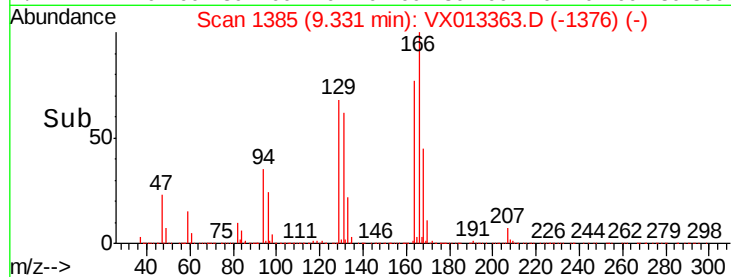
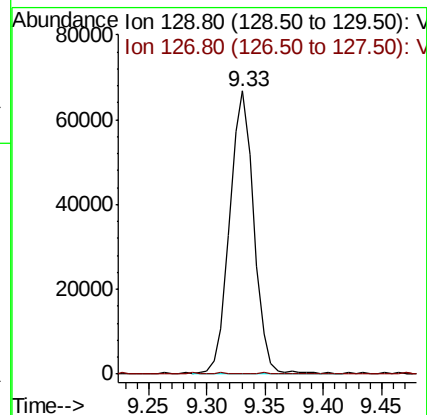
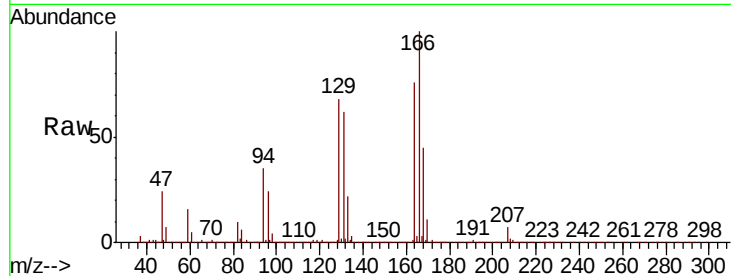
MW-311-SRI4

Tot Ion:129 Resp: 95701

Ion Ratio Lower Upper

129 100

127 0.2 39.1 117.2#



#62

4-Bromofluorobenzene

Concen: 47.863 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX013363.D

Acq: 08 Nov 2019 17:25

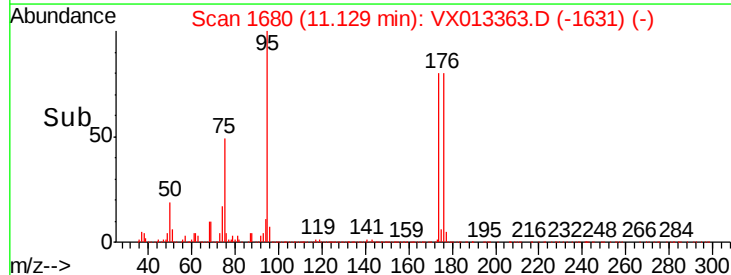
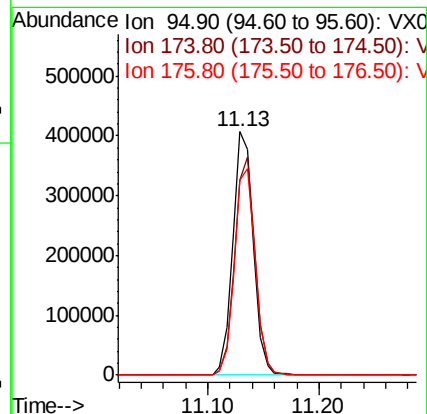
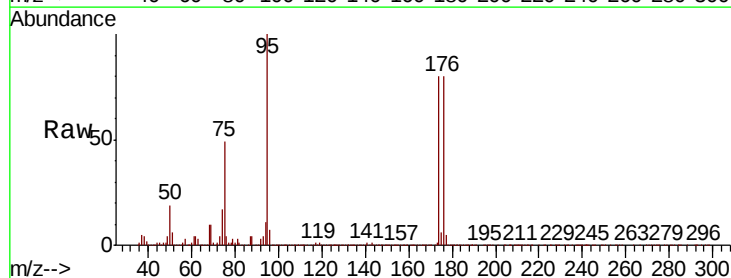
Tgt Ion: 95 Resp: 516818

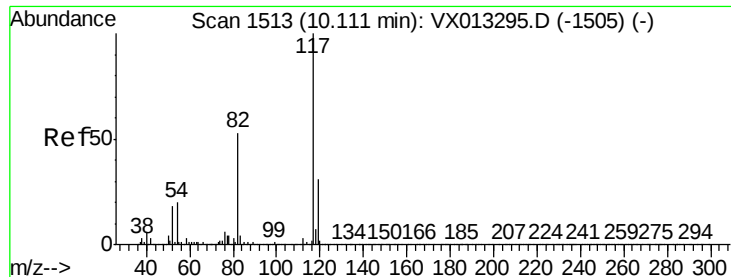
Ion Ratio Lower Upper

95 100

174 89.4 0.0 179.8

176 86.7 0.0 173.0

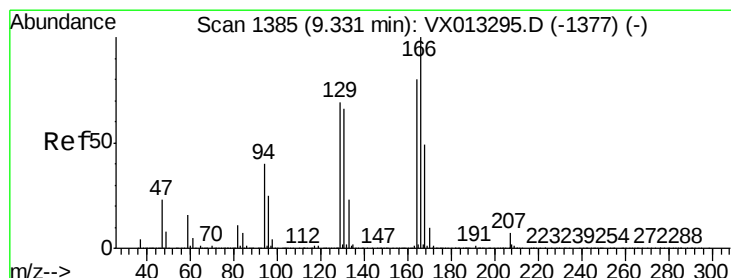
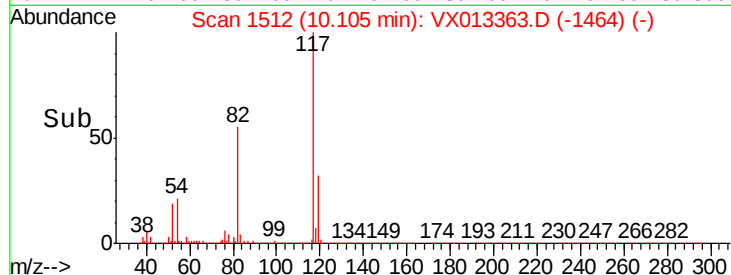
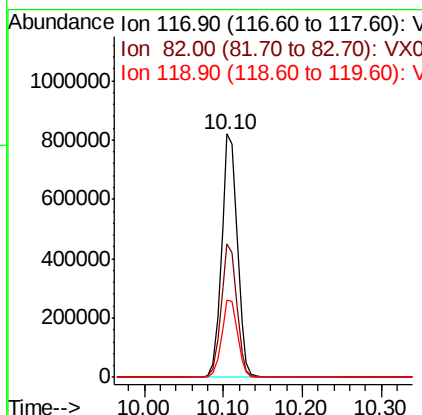
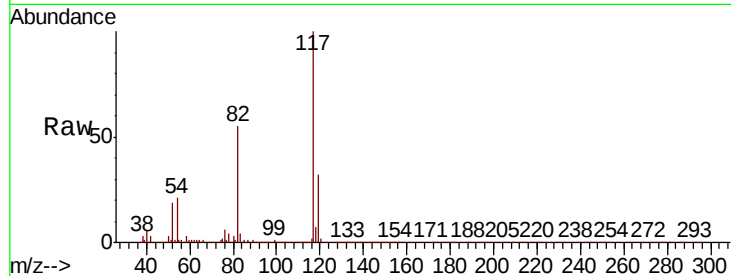




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX013363.D
Acq: 08 Nov 2019 17:25

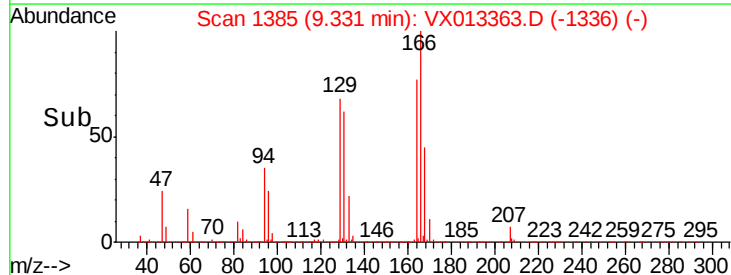
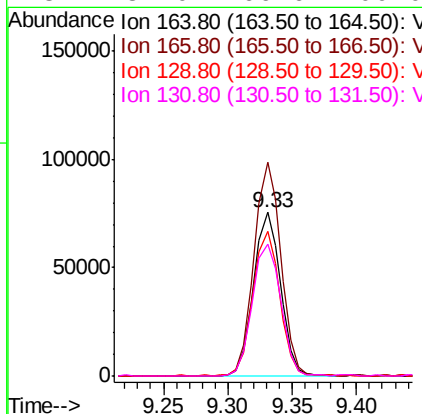
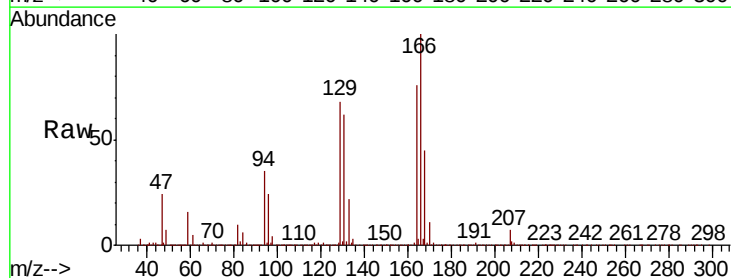
Instrument :
MSVOA_X
ClientSampled :
MW-311-SRI4

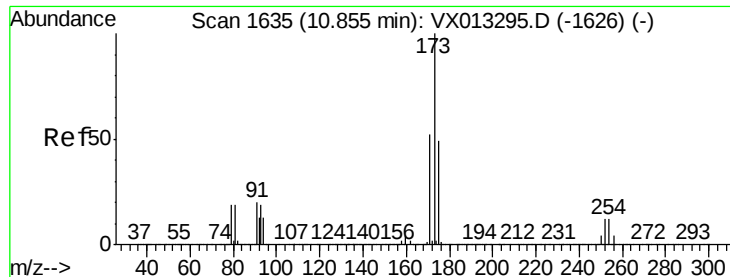
Tot Ion:117 Resp: 1137702
Ion Ratio Lower Upper
117 100
82 54.8 42.6 64.0
119 31.6 24.8 37.2



#64
Tetrachloroethene
Concen: 13.382 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. -0.00 min
Lab File: VX013363.D
Acq: 08 Nov 2019 17:25

Tgt Ion:164 Resp: 108987
Ion Ratio Lower Upper
164 100
166 130.7 100.4 150.6
129 88.3 69.4 104.2
131 81.0 66.6 100.0

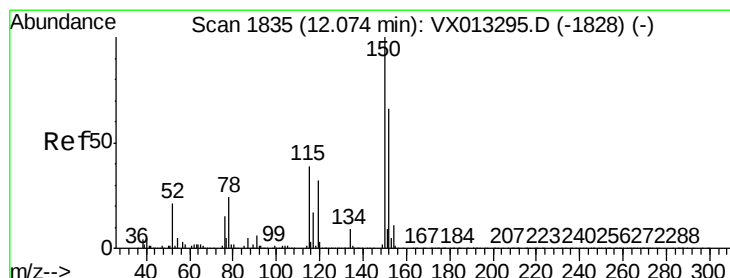
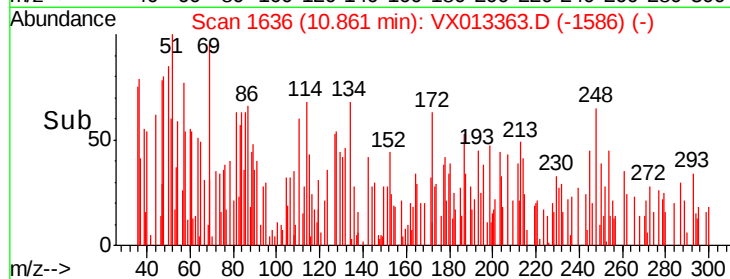
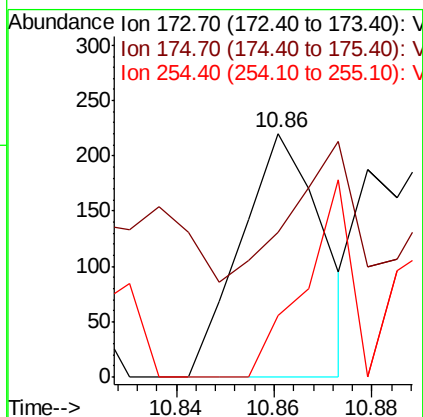
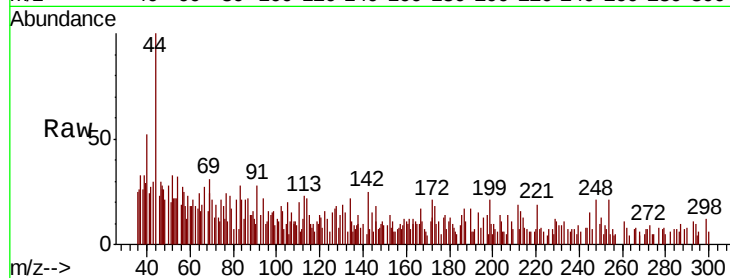




#71
Bromoform
Concen: 3.233 ug/l
RT: 10.86 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VX013363.D
Acq: 08 Nov 2019 17:25

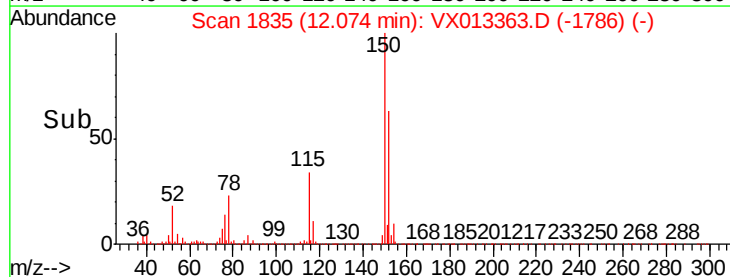
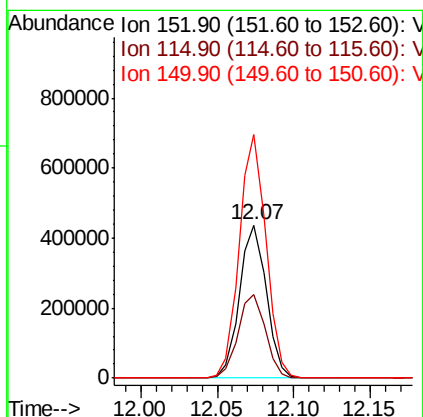
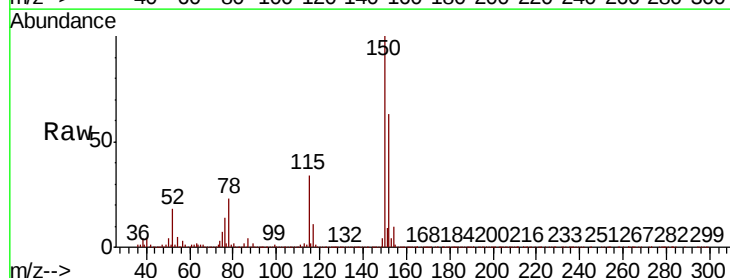
Instrument :
MSVOA_X
ClientSampled :
MW-311-SRI4

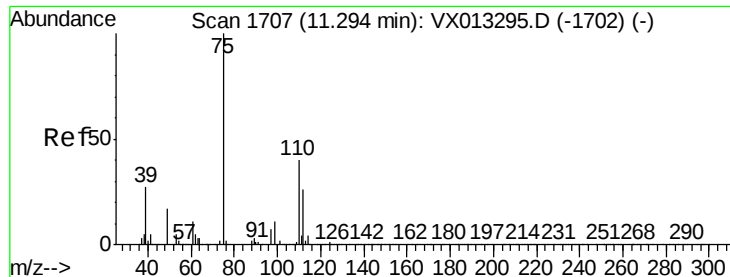
Tot Ion:173 Resp: 255
Ion Ratio Lower Upper
173 100
175 0.0 24.8 74.4#
254 44.7 0.2 0.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013363.D
Acq: 08 Nov 2019 17:25

Tgt Ion:152 Resp: 533987
Ion Ratio Lower Upper
152 100
115 55.6 39.5 118.3
150 157.7 0.0 344.4





#76

1,2,3-Trichloropropane

Concen: 23.244 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013363.D

Acq: 08 Nov 2019 17:25

Instrument :

MSVOA_X

ClientSampleId :

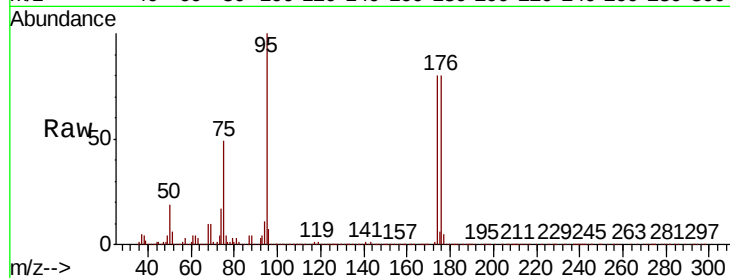
MW-311-SRI4

Tot Ion: 75 Resp: 252106

Ion Ratio Lower Upper

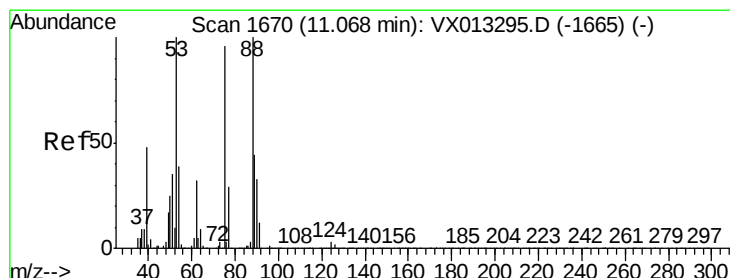
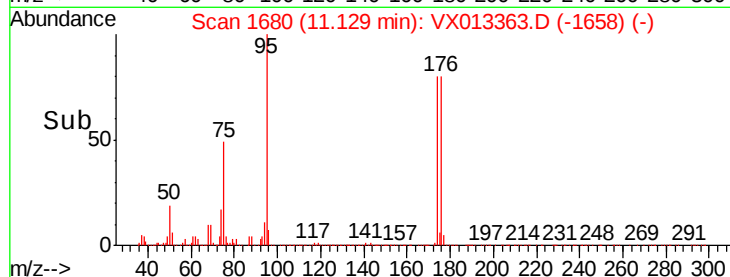
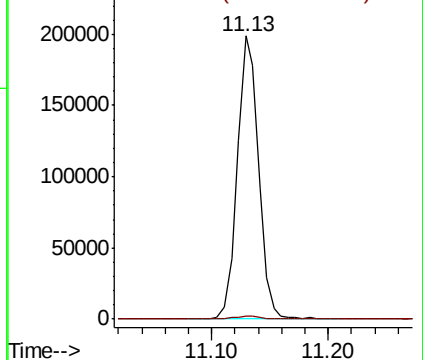
75 100

77 1.5 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: 59.830 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013363.D

Acq: 08 Nov 2019 17:25

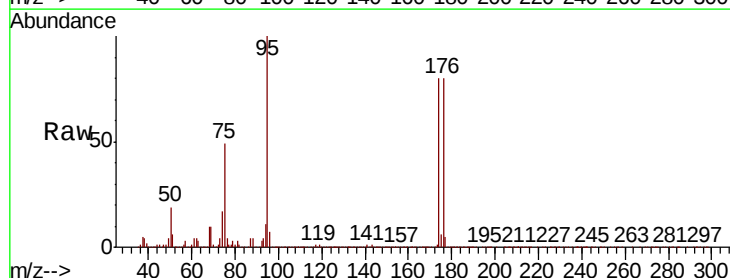
Tgt Ion: 75 Resp: 252106

Ion Ratio Lower Upper

75 100

53 0.8 81.0 121.6#

89 0.0 36.0 54.0#



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

