

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX031620\
 Data File : VX015297.D
 Acq On : 16 Mar 2020 16:20
 Operator : JC/SP
 Sample : L1945-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW202D-20200313

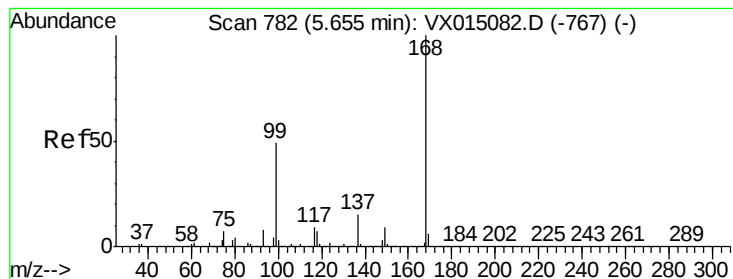
Quant Time: Mar 17 07:42:26 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X030420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 04 14:19:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	315607	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	515095	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	521076	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	264209	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	184234	49.20	ug/l	0.00
Spiked Amount			Recovery	=	98.40%	
35) Dibromofluoromethane	5.49	113	154943	47.68	ug/l	0.00
Spiked Amount			Recovery	=	95.36%	
50) Toluene-d8	8.71	98	638496	51.65	ug/l	0.00
Spiked Amount			Recovery	=	103.30%	
62) 4-Bromofluorobenzene	11.13	95	236938	53.74	ug/l	0.00
Spiked Amount			Recovery	=	107.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	834	0.302	ug/l	75
7) Trichlorofluoromethane	1.93	101	8631	1.827	ug/l	99
11) Tert butyl alcohol	3.03	59	261	0.402	ug/l #	1
12) 1,1-Dichloroethene	2.37	96	3593	1.172	ug/l #	82
13) Acrolein	2.27	56	190	0.311	ug/l #	49
15) Acrylonitrile	3.14	53	464	0.287	ug/l #	21
16) Acetone	2.44	43	2639	1.740	ug/l	92
19) Methyl tert-butyl Ether	3.19	73	2266	0.236	ug/l #	91
21) trans-1,2-Dichloroethene	3.16	96	1547	0.472	ug/l #	71
24) 1,1-Dichloroethane	3.69	63	15545	2.629	ug/l	99
27) cis-1,2-Dichloroethene	4.59	96	42845	11.662	ug/l	90
30) Chloroform	5.20	83	3869	0.671	ug/l	90
32) 1,1,1-Trichloroethane	5.48	97	2181	0.457	ug/l #	35
38) Carbon Tetrachloride	5.65	117	27303	6.074	ug/l #	19
42) 1,2-Dichloroethane	6.19	62	2339	0.482	ug/l #	69
44) Trichloroethene	7.21	130	262391	66.690	ug/l	99
49) 1,4-Dioxane	7.98	88	242	2.830	ug/l	90
60) Dibromochloromethane	9.33	129	61202	16.387	ug/l #	11
64) Tetrachloroethene	9.33	164	70739	16.419	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	112053	21.262	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	112053	60.341	ug/l #	11
95) Naphthalene	13.84	128	525	1.449	ug/l #	57

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX015297.D

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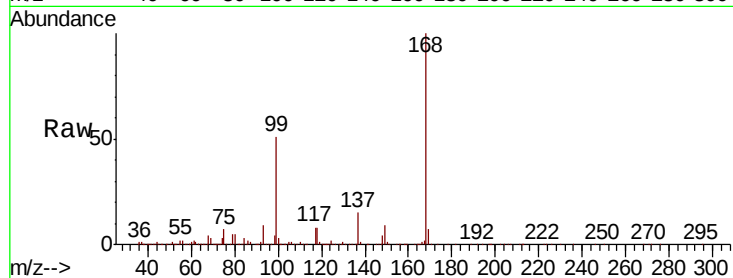
MW202D-20200313

Tot Ion:168 Resp: 315607

Ion Ratio Lower Upper

168 100

99 50.7 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

120000

100000

80000

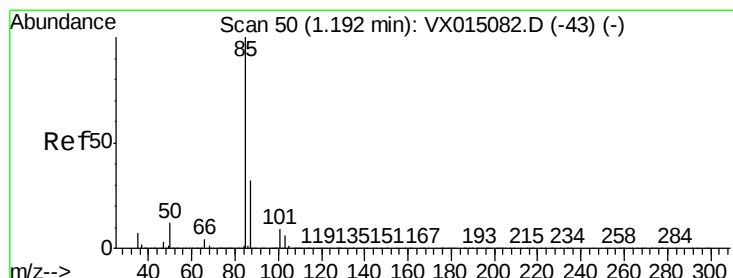
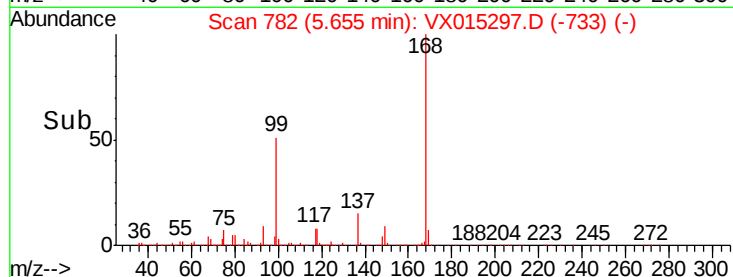
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.302 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX015297.D

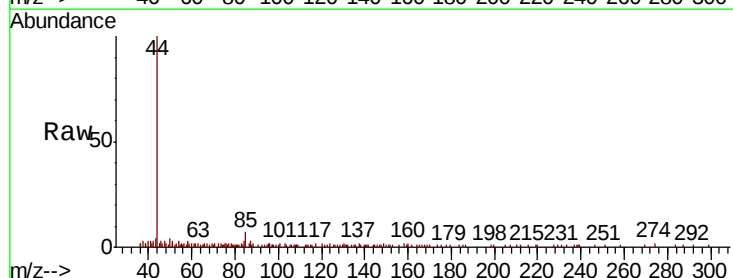
Acq: 16 Mar 2020 16:20

Tgt Ion: 85 Resp: 834

Ion Ratio Lower Upper

85 100

87 46.0 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

600

500

400

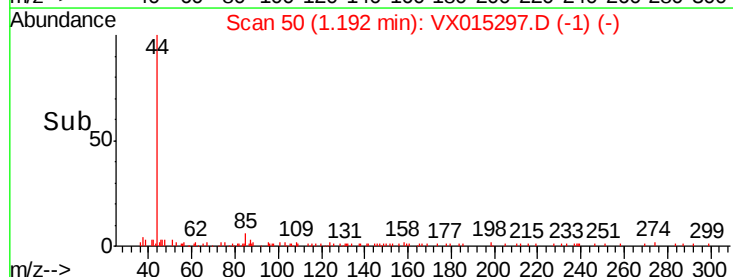
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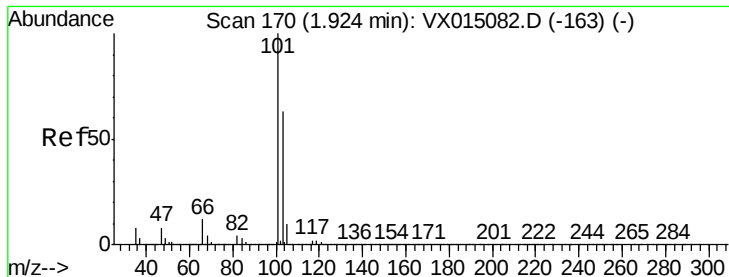
200

100

0

Time-->



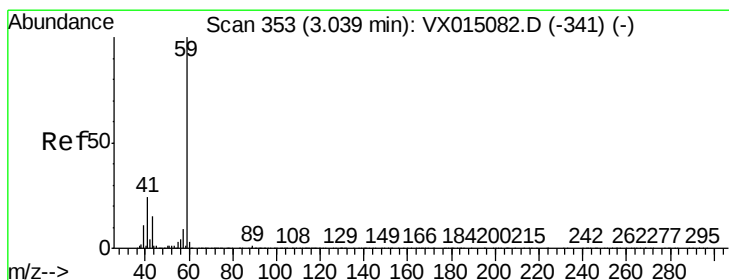
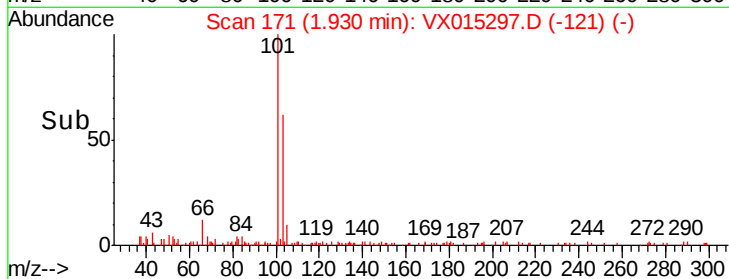
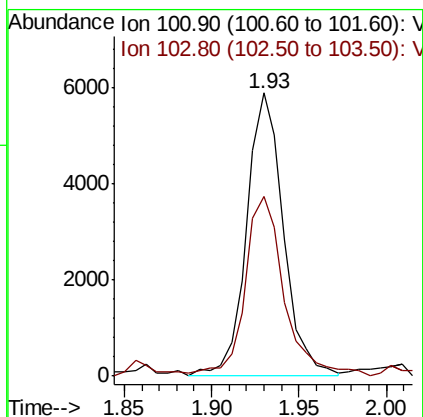
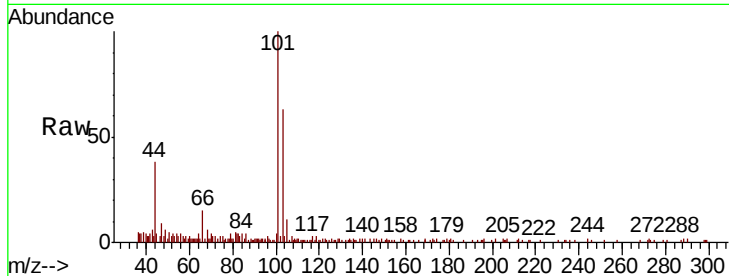


#7

Trichlorofluoromethane
Concen: 1.827 ug/l
RT: 1.93 min Scan# 171
Delta R.T. 0.01 min
Lab File: VX015297.D
Acq: 16 Mar 2020 16:20

Instrument :
MSVOA_X
ClientSampleId :
MW202D-20200313

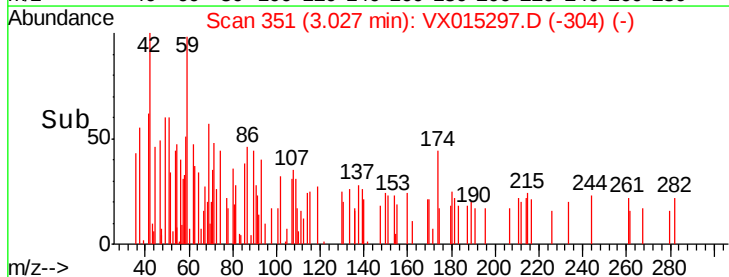
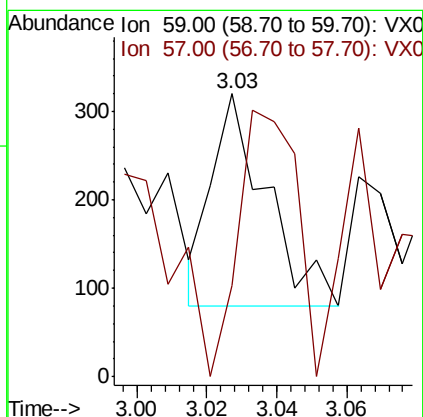
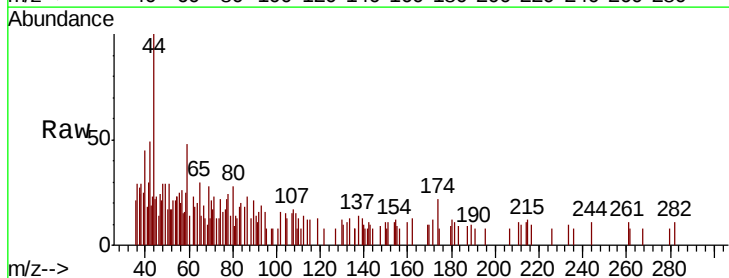
Tot Ion:101 Resp: 8631
Ion Ratio Lower Upper
101 100
103 62.2 50.4 75.6

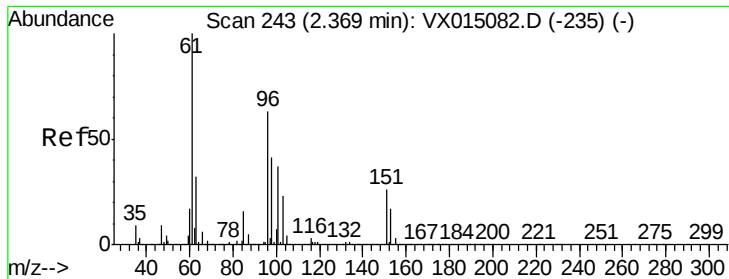


#11

Tert butyl alcohol
Concen: 0.402 ug/l
RT: 3.03 min Scan# 351
Delta R.T. -0.01 min
Lab File: VX015297.D
Acq: 16 Mar 2020 16:20

Tgt Ion: 59 Resp: 261
Ion Ratio Lower Upper
59 100
57 132.6 8.2 12.4#





#12

1,1-Dichloroethene

Concen: 1.172 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX015297.D

Acq: 16 Mar 2020 16:20

Instrument :

MSVOA_X

ClientSampleId :

MW202D-20200313

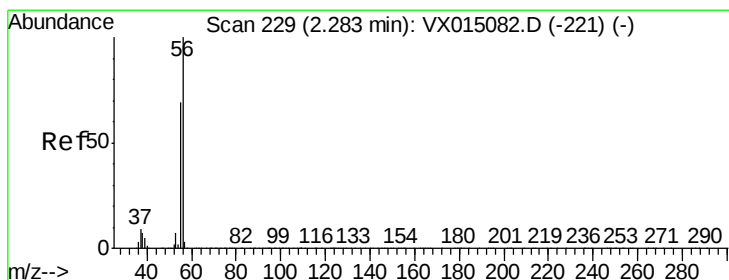
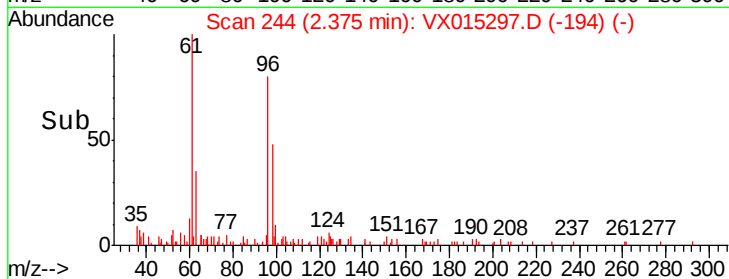
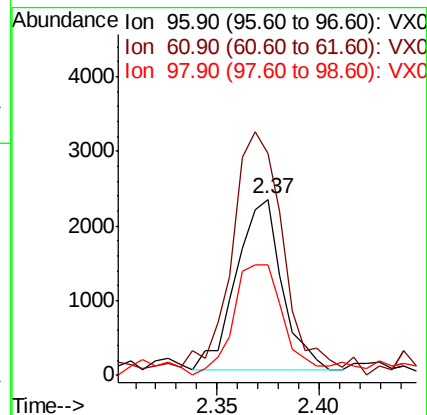
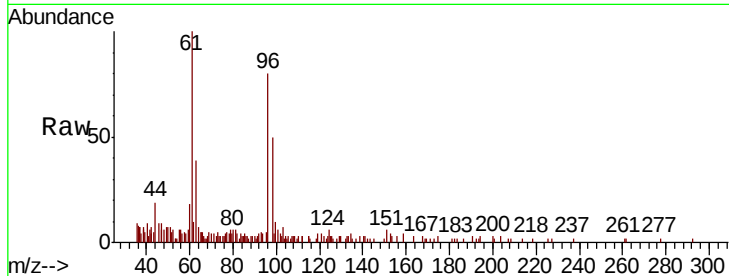
Tot Ion: 96 Resp: 3593

Ion Ratio Lower Upper

96 100

61 124.8 126.2 189.4#

98 64.4 51.4 77.0



#13

Acrolein

Concen: 0.311 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX015297.D

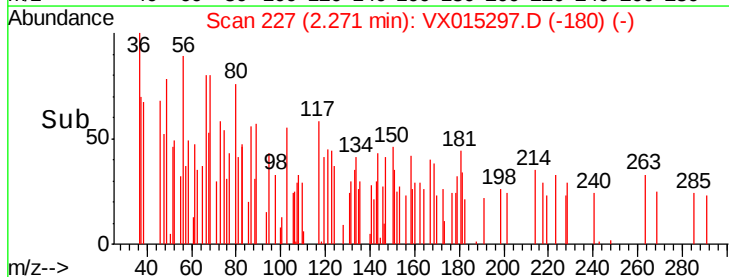
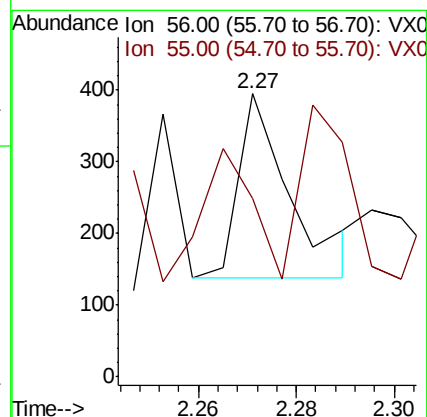
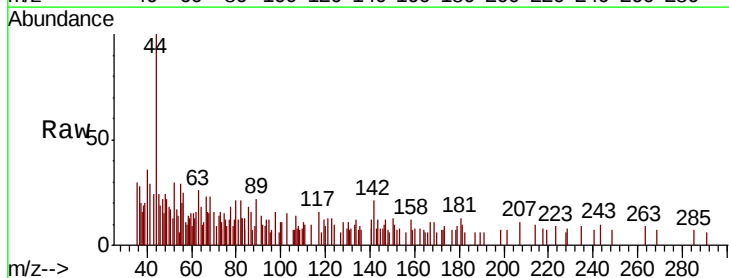
Acq: 16 Mar 2020 16:20

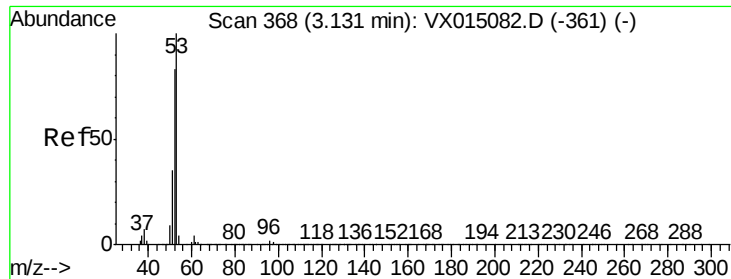
Tgt Ion: 56 Resp: 190

Ion Ratio Lower Upper

56 100

55 111.1 55.4 83.0#

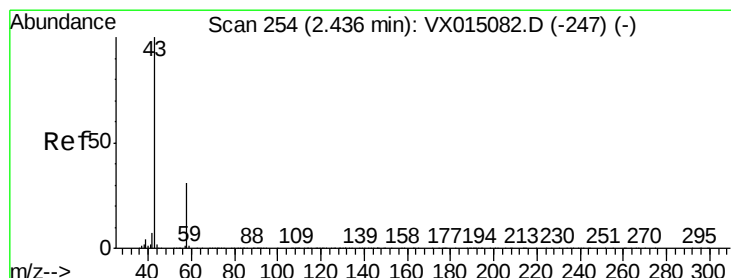
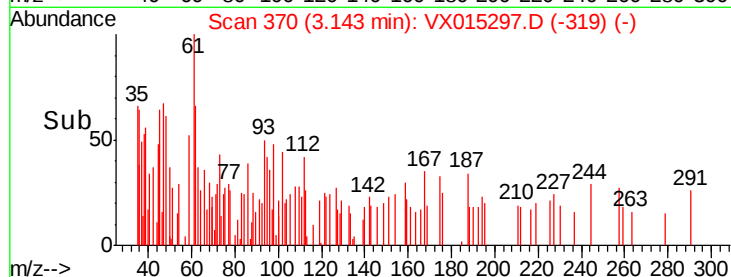
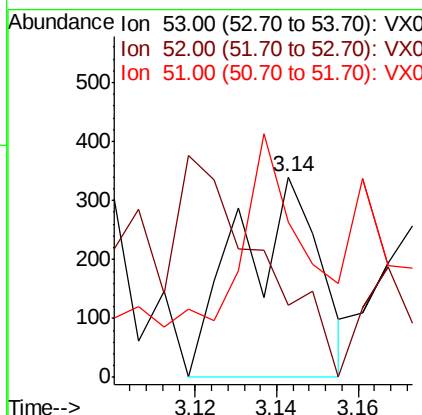
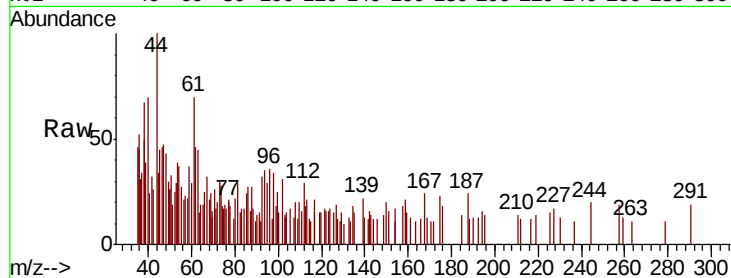




#15
 Acrylonitrile
 Concen: 0.287 ug/l
 RT: 3.14 min Scan# 370
 Delta R.T. 0.01 min
 Lab File: VX015297.D
 Acq: 16 Mar 2020 16:20

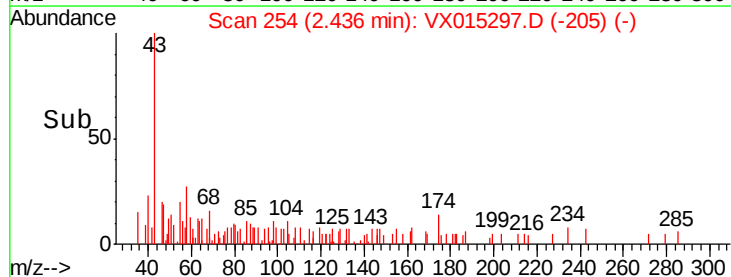
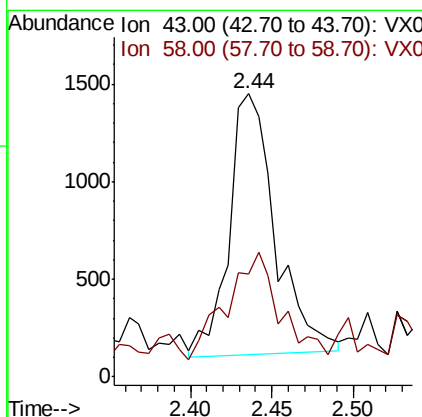
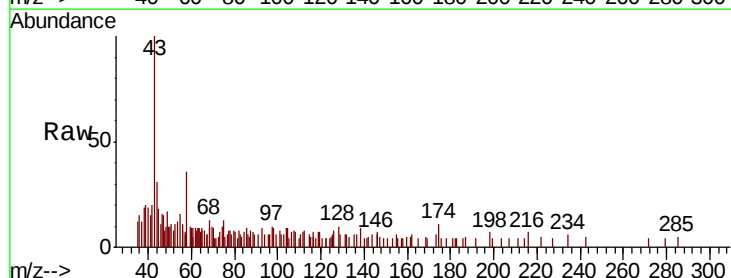
Instrument :
 MSVOA_X
 ClientSampleID :
 MW202D-20200313

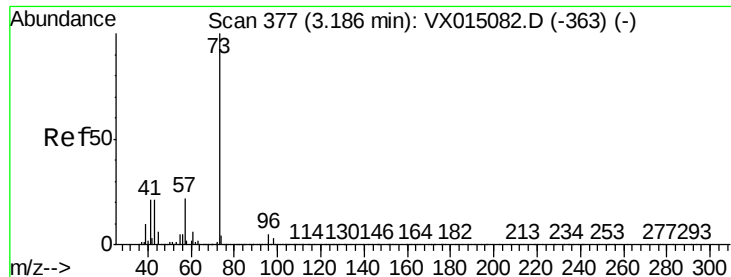
Tot Ion: 53 Resp: 464
 Ion Ratio Lower Upper
 53 100
 52 0.0 66.6 100.0#
 51 64.7 29.0 43.6#



#16
 Acetone
 Concen: 1.740 ug/l
 RT: 2.44 min Scan# 254
 Delta R.T. 0.00 min
 Lab File: VX015297.D
 Acq: 16 Mar 2020 16:20

Tgt Ion: 43 Resp: 2639
 Ion Ratio Lower Upper
 43 100
 58 26.5 24.8 37.2



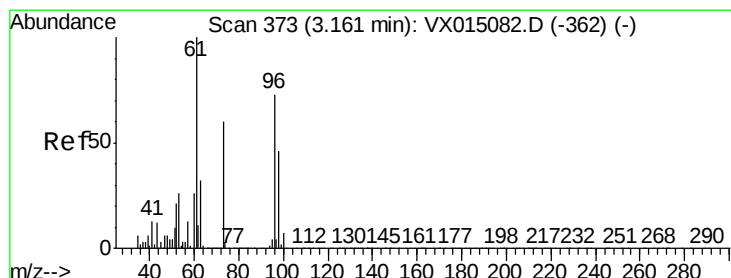
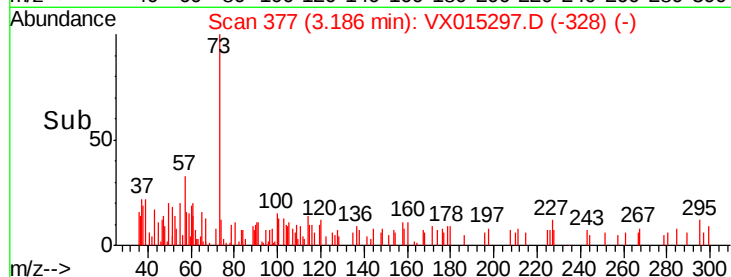
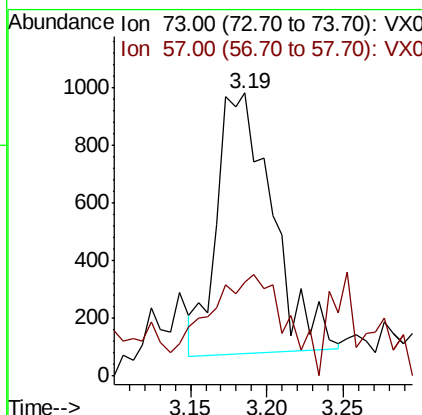
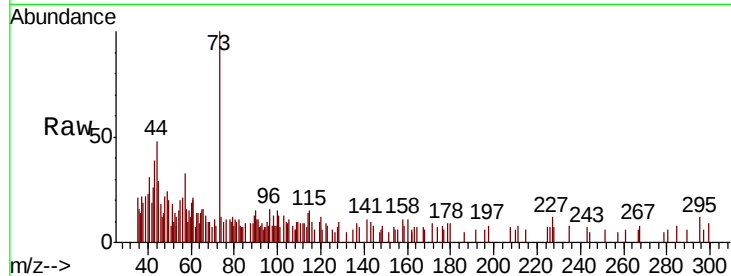


#19

Methyl tert-butyl Ether
 Concen: 0.236 ug/l
 RT: 3.19 min Scan# 377
 Delta R.T. 0.00 min
 Lab File: VX015297.D
 Acq: 16 Mar 2020 16:20

Instrument :
 MSVOA_X
 ClientSampleId :
 MW202D-20200313

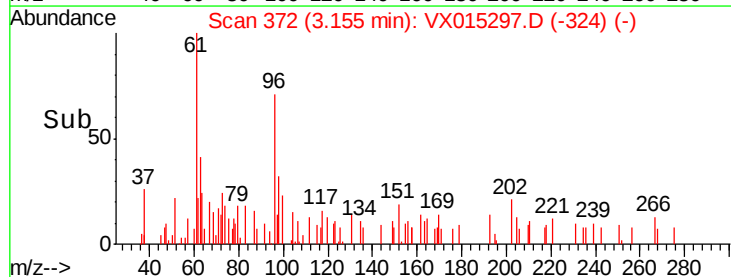
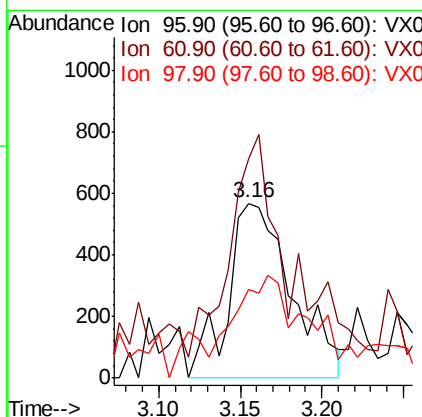
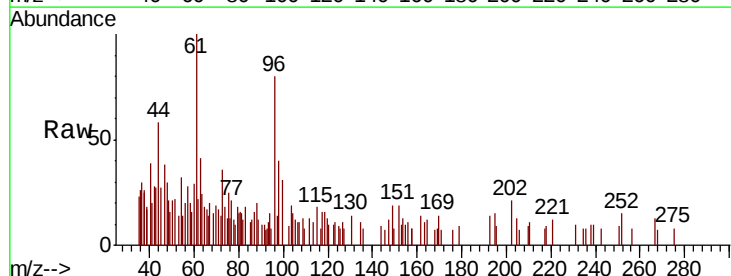
Tot Ion: 73 Resp: 2266
 Ion Ratio Lower Upper
 73 100
 57 17.7 17.8 26.6#

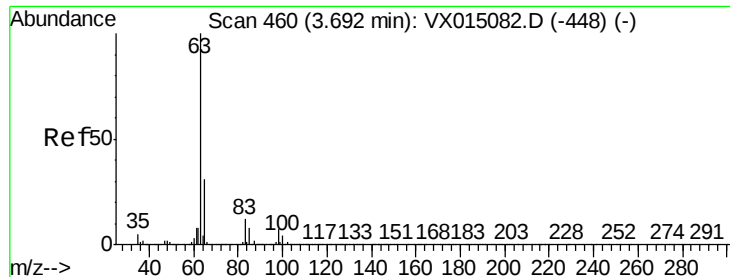


#21

trans-1,2-Dichloroethene
 Concen: 0.472 ug/l
 RT: 3.16 min Scan# 372
 Delta R.T. -0.01 min
 Lab File: VX015297.D
 Acq: 16 Mar 2020 16:20

Tgt Ion: 96 Resp: 1547
 Ion Ratio Lower Upper
 96 100
 61 113.7 109.9 164.9
 98 25.4 50.2 75.2#





#24

1,1-Dichloroethane

Concen: 2.629 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.00 min

Lab File: VX015297.D

Acq: 16 Mar 2020 16:20

Instrument :

MSVOA_X

ClientSampleId :

MW202D-20200313

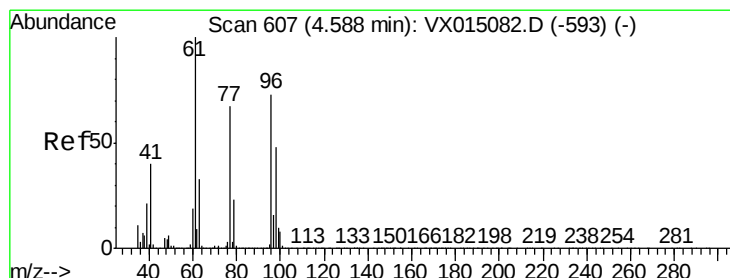
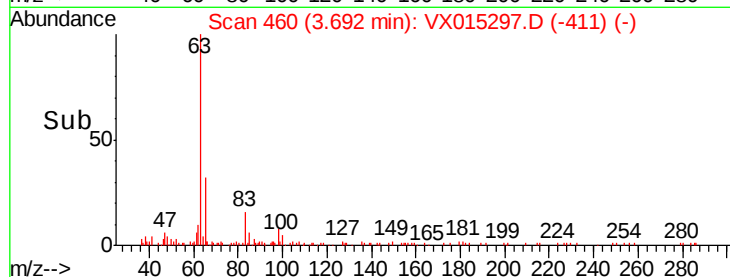
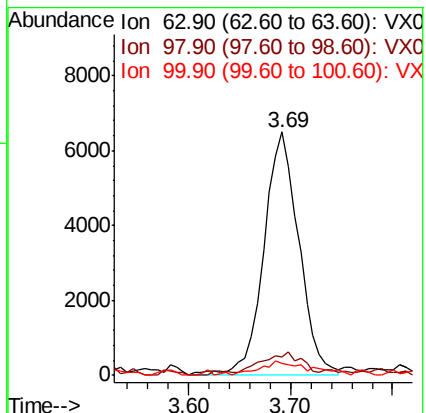
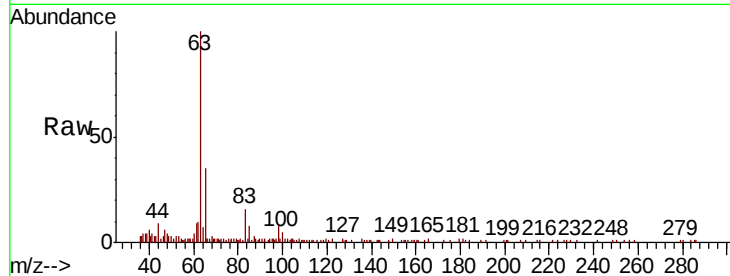
Tot Ion: 63 Resp: 15545

Ion Ratio Lower Upper

63 100

98 7.6 3.7 11.1

100 3.7 2.1 6.5



#27

cis-1,2-Dichloroethene

Concen: 11.662 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.00 min

Lab File: VX015297.D

Acq: 16 Mar 2020 16:20

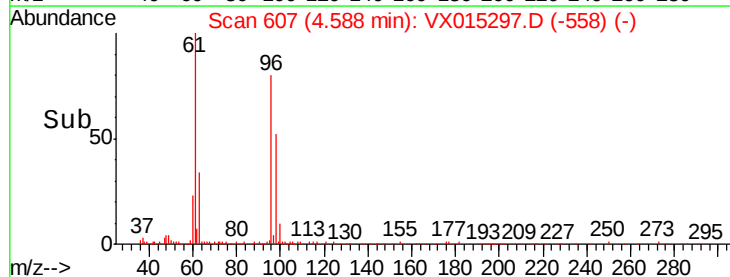
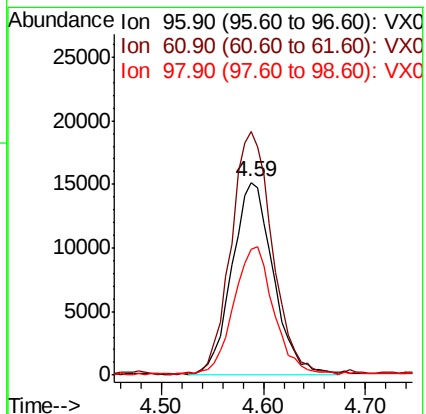
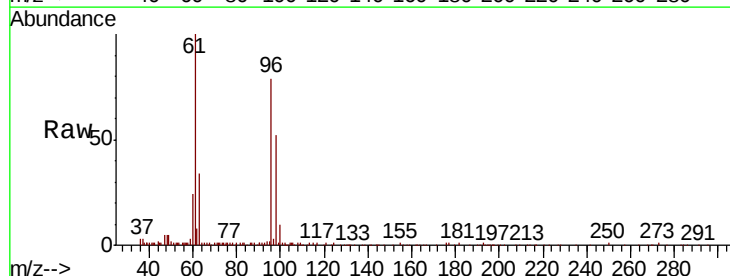
Tgt Ion: 96 Resp: 42845

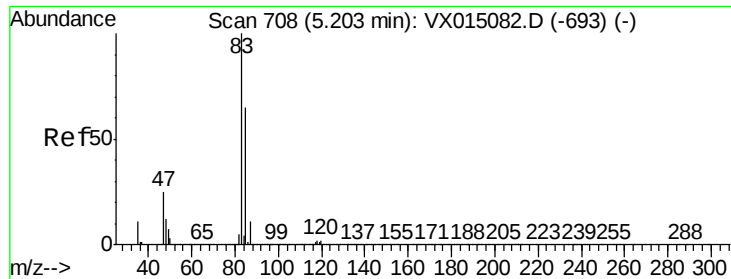
Ion Ratio Lower Upper

96 100

61 126.2 0.0 286.8

98 63.7 0.0 128.4





#30

Chloroform

Concen: 0.671 ug/l

RT: 5.20 min Scan# 708

Delta R.T. -0.00 min

Lab File: VX015297.D

Acq: 16 Mar 2020 16:20

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ClientSampleId :

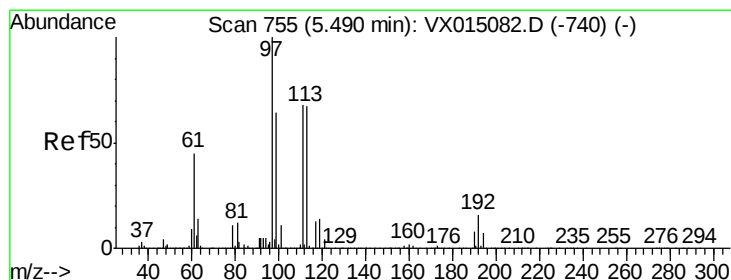
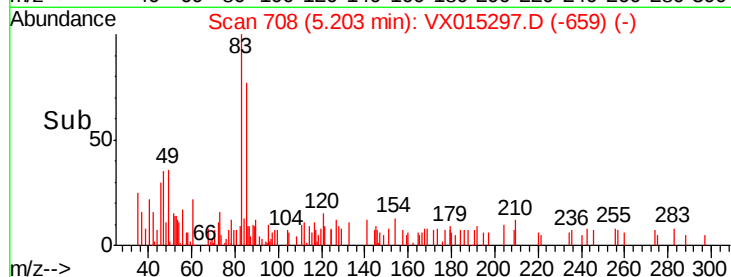
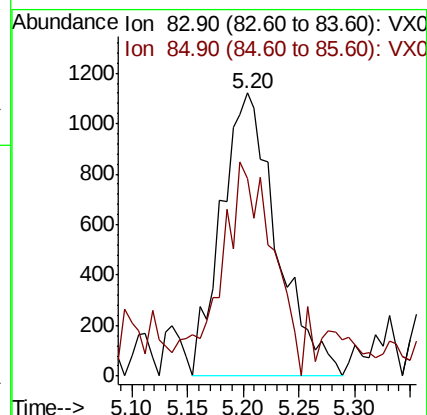
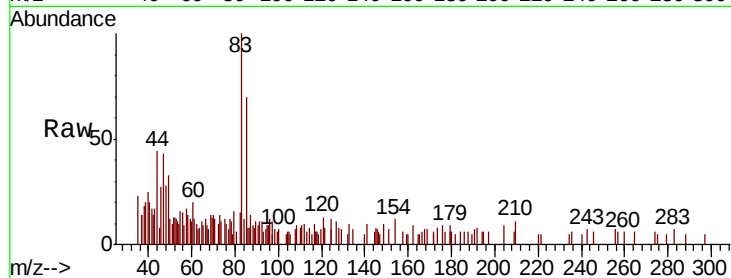
MW202D-20200313

Tot Ion: 83 Resp: 3869

Ion Ratio Lower Upper

83 100

85 57.3 52.0 78.0



#32

1,1,1-Trichloroethane

Concen: 0.457 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX015297.D

Acq: 16 Mar 2020 16:20

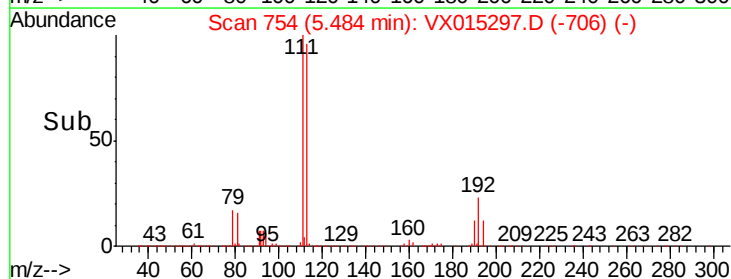
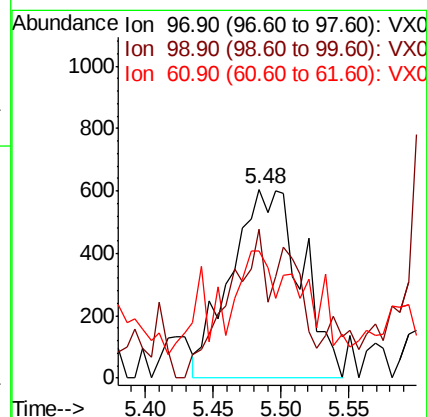
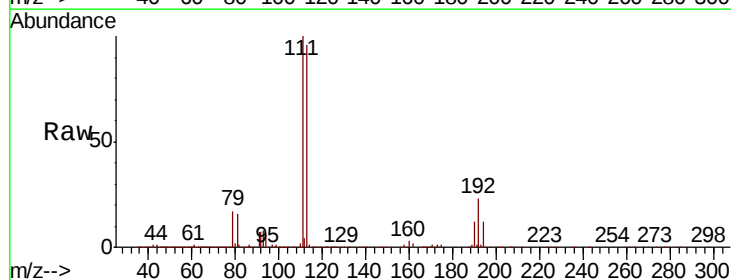
Tgt Ion: 97 Resp: 2181

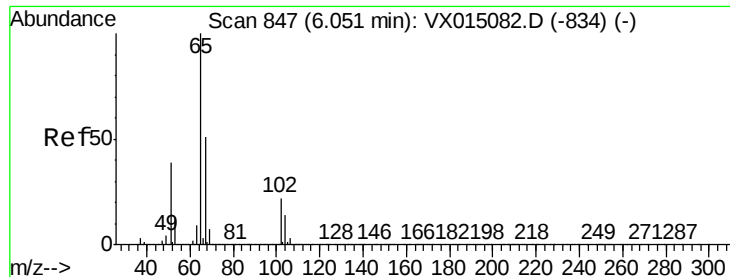
Ion Ratio Lower Upper

97 100

99 0.0 52.8 79.2#

61 19.9 36.6 54.8#





#33

1,2-Dichloroethane-d4

Concen: 49.204 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX015297.D

Acq: 16 Mar 2020 16:20

Instrument :

MSVOA_X

ClientSampleId :

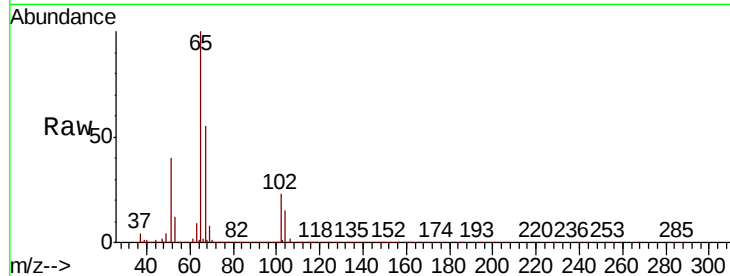
MW202D-20200313

Tot Ion: 65 Resp: 184234

Ion Ratio Lower Upper

65 100

67 54.5 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

80000

60000

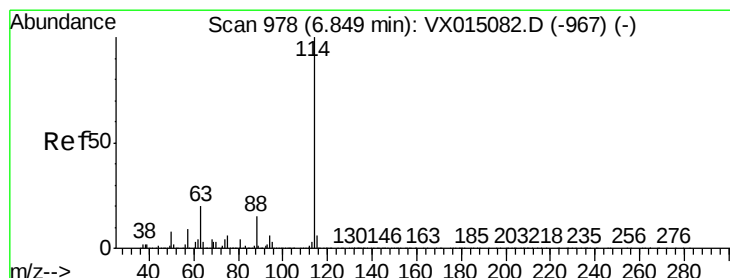
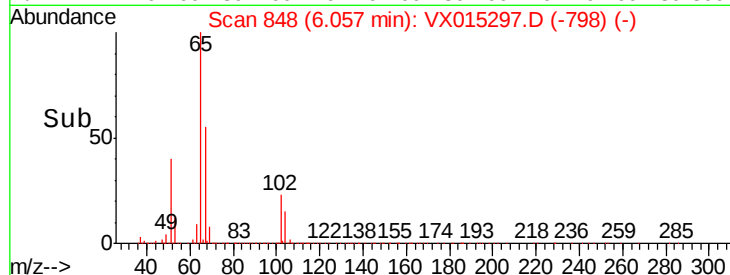
40000

20000

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: VX015297.D

Acq: 16 Mar 2020 16:20

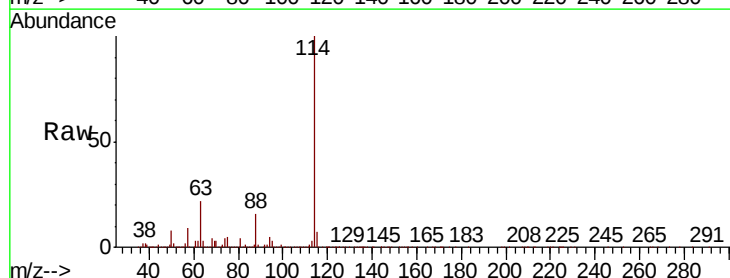
Tgt Ion: 114 Resp: 515095

Ion Ratio Lower Upper

114 100

63 21.7 0.0 40.0

88 15.5 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

300000

250000

200000

150000

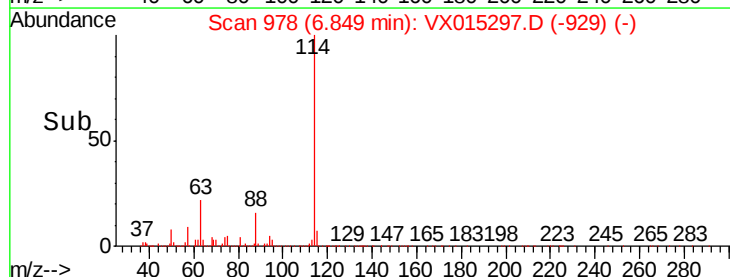
100000

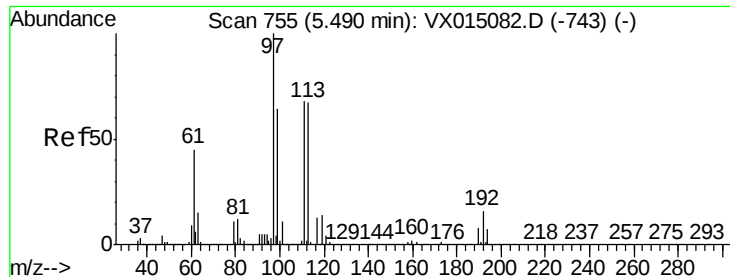
50000

0

Time-->

6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 47.681 ug/l

RT: 5.49 min Scan# 755

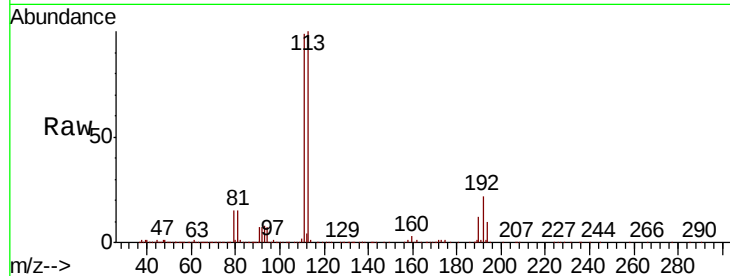
Delta R.T. -0.00 min

Lab File: VX015297.D

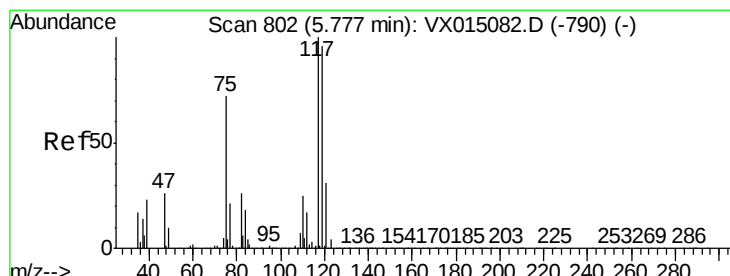
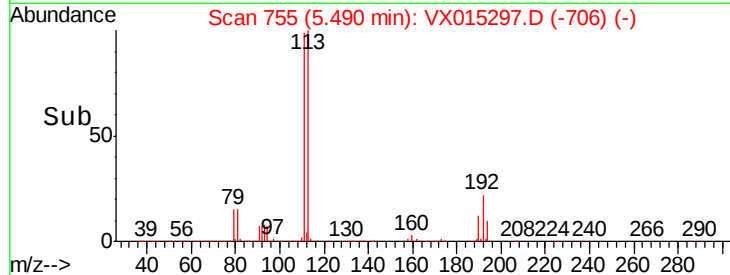
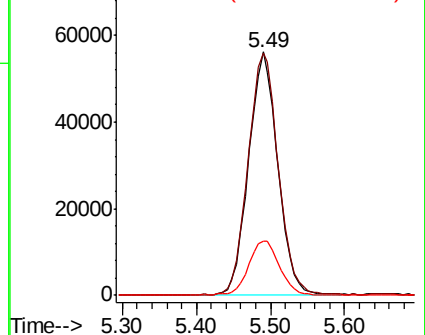
Acq: 16 Mar 2020 16:20

Instrument :
MSVOA_X
ClientSampleId :
MW202D-20200313

Tot Ion:113	Resp:	154943
Ion Ratio	Lower	Upper
113	100	
111	102.9	82.6 123.8
192	23.8	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



#38

Carbon Tetrachloride

Concen: 6.074 ug/l

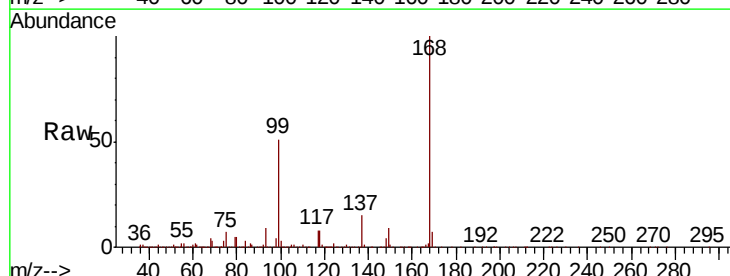
RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

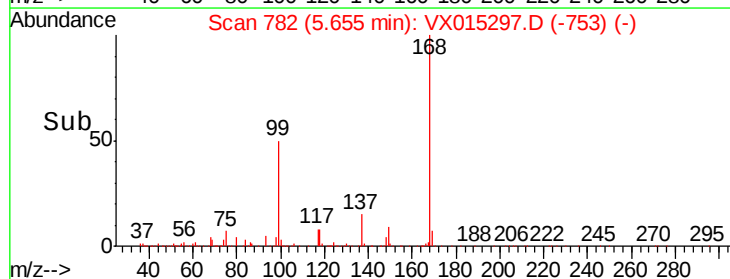
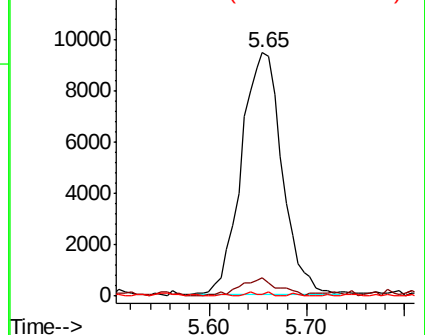
Lab File: VX015297.D

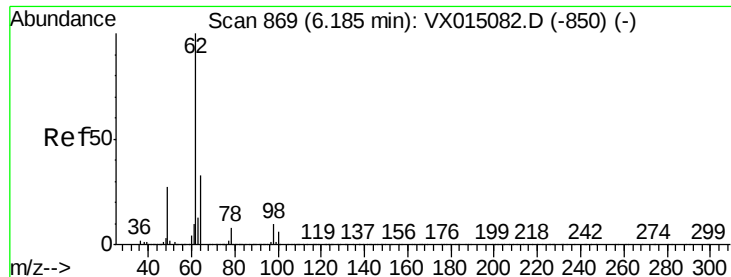
Acq: 16 Mar 2020 16:20

Tgt Ion:117	Resp:	27303
Ion Ratio	Lower	Upper
117	100	
119	7.7	76.9 115.3#
121	1.8	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: 0.482 ug/l

RT: 6.19 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX015297.D

Acq: 16 Mar 2020 16:20

Instrument :

MSVOA_X

ClientSampleId :

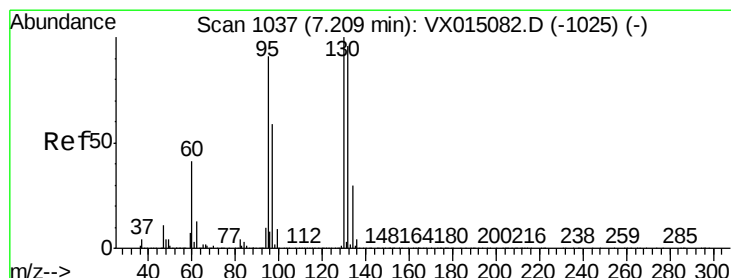
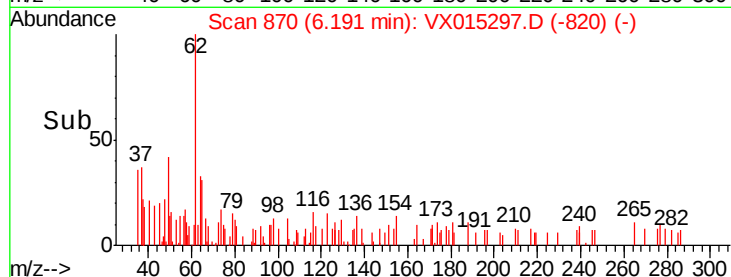
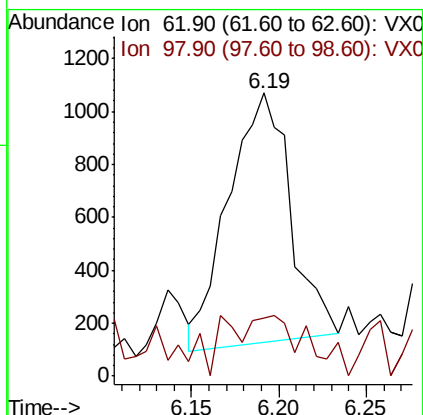
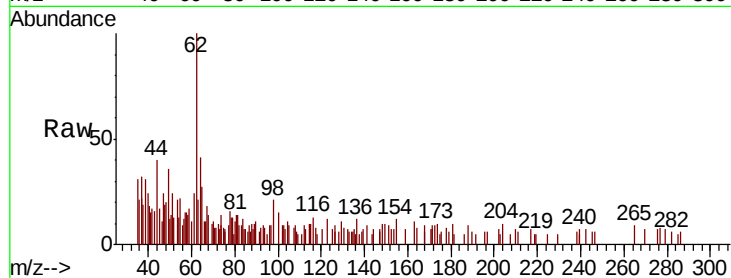
MW202D-20200313

Tot Ion: 62 Resp: 2339

Ion Ratio Lower Upper

62 100

98 22.0 0.0 20.6#



#44

Trichloroethene

Concen: 66.690 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX015297.D

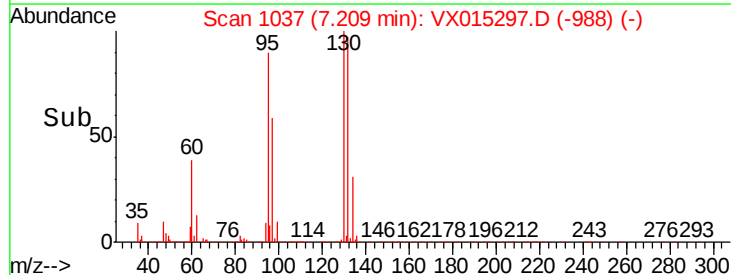
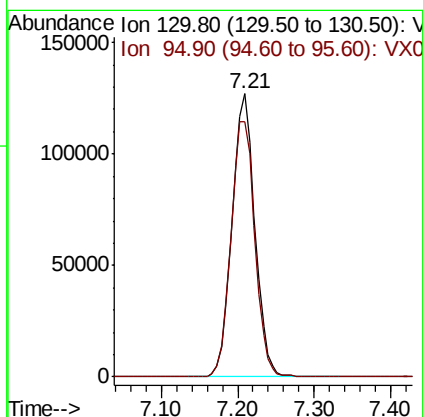
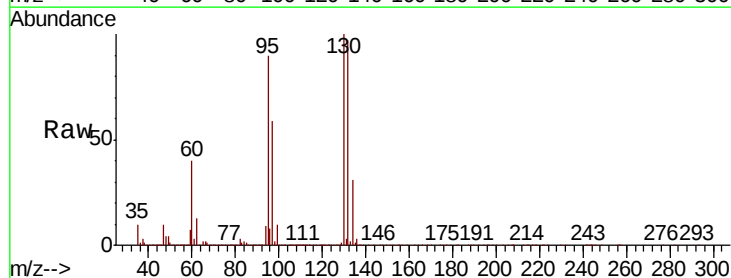
Acq: 16 Mar 2020 16:20

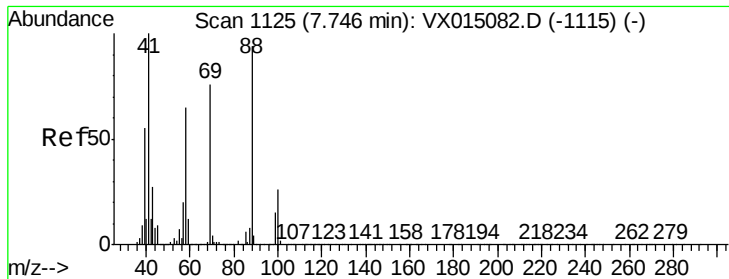
Tgt Ion:130 Resp: 262391

Ion Ratio Lower Upper

130 100

95 90.0 0.0 181.2

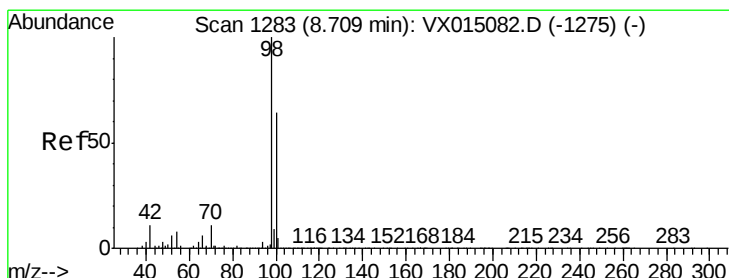
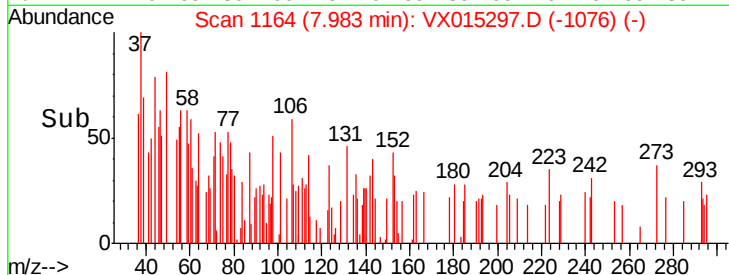
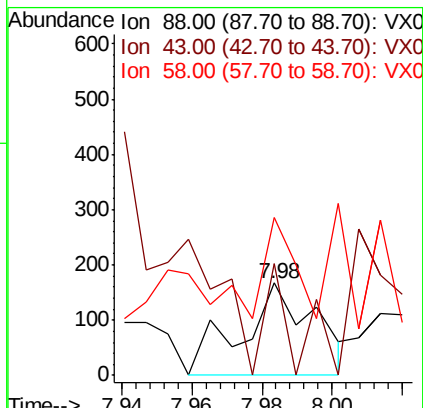
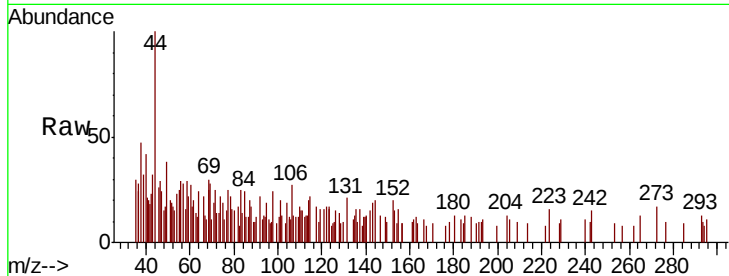




#49
1,4-Dioxane
Concen: 2.830 ug/l
RT: 7.98 min Scan# 1164
Delta R.T. 0.24 min
Lab File: VX015297.D
Acq: 16 Mar 2020 16:20

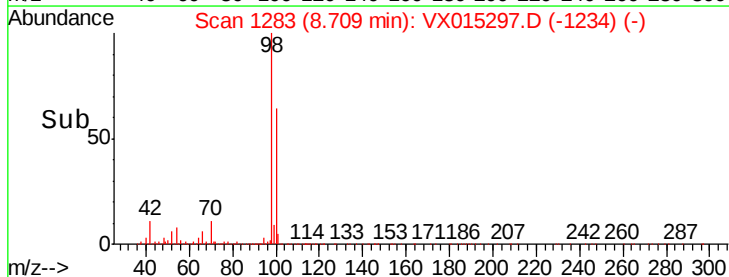
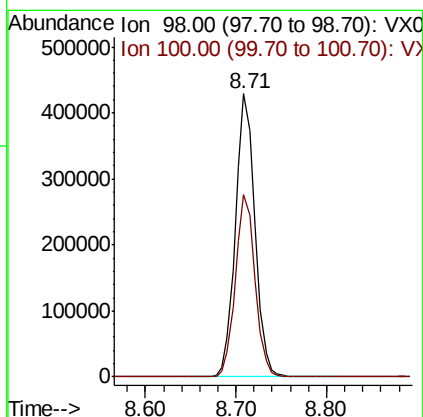
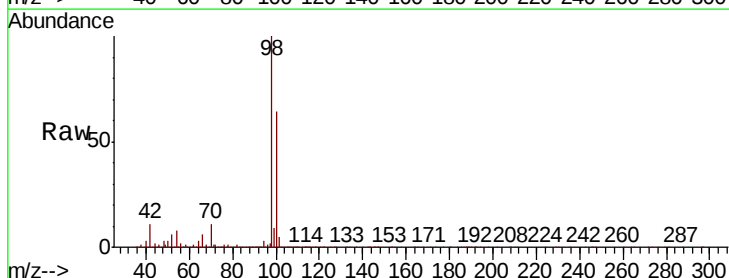
Instrument :
MSVOA_X
ClientSampleId :
MW202D-20200313

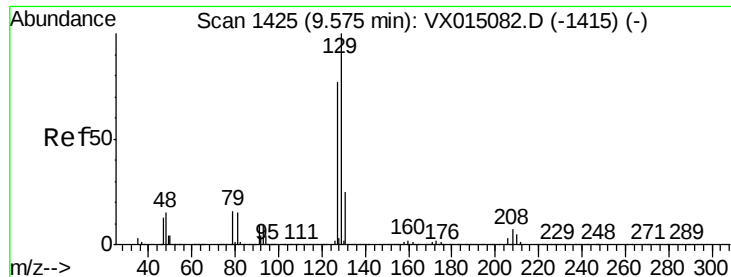
Tot Ion: 88 Resp: 242
Ion Ratio Lower Upper
88 100
43 30.6 27.0 40.4
58 59.5 55.6 83.4



#50
Toluene-d8
Concen: 51.654 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX015297.D
Acq: 16 Mar 2020 16:20

Tgt Ion: 98 Resp: 638496
Ion Ratio Lower Upper
98 100
100 64.9 52.4 78.6





#60

Dibromochloromethane

Concen: 16.387 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.24 min

Lab File: VX015297.D

Acq: 16 Mar 2020 16:20

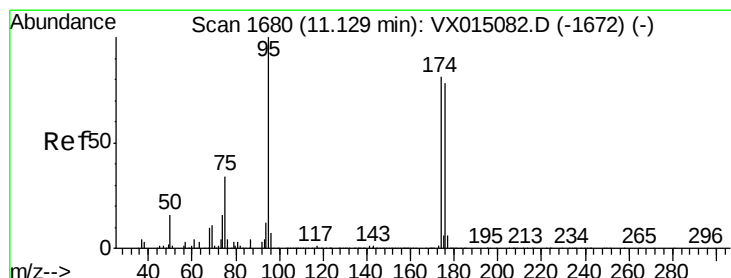
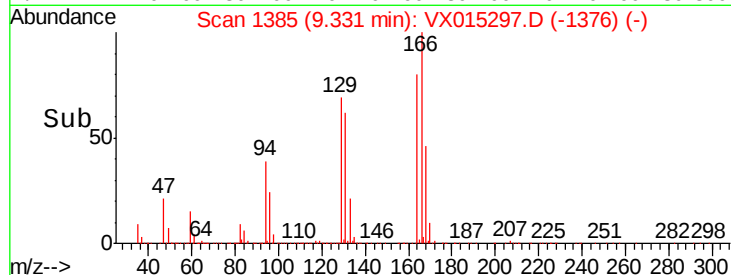
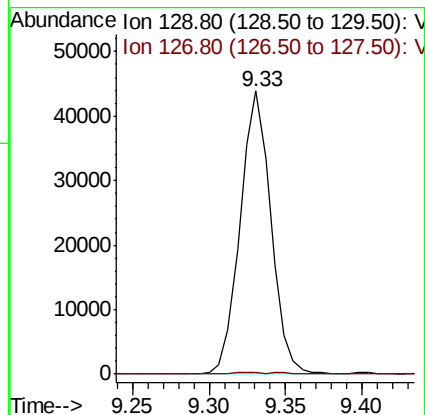
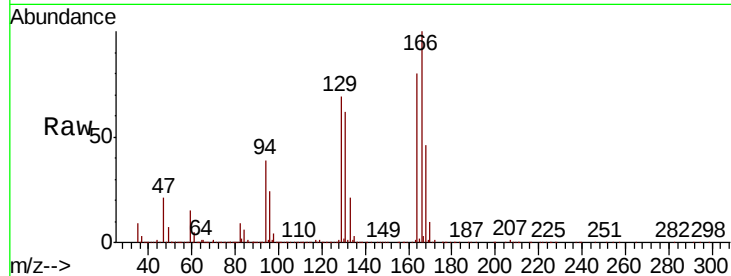
Instrument :
MSVOA_X
ClientSampleId :
MW202D-20200313

Tot Ion:129 Resp: 61202

Ion Ratio Lower Upper

129 100

127 0.3 38.8 116.3#



#62

4-Bromofluorobenzene

Concen: 53.739 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX015297.D

Acq: 16 Mar 2020 16:20

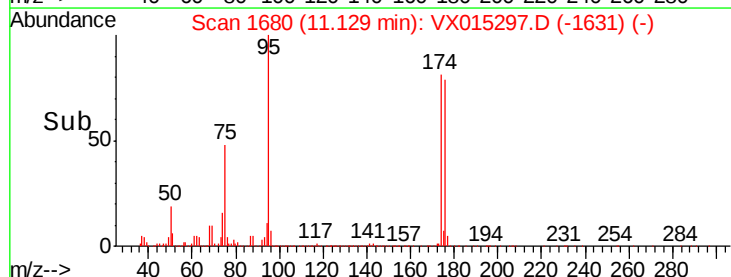
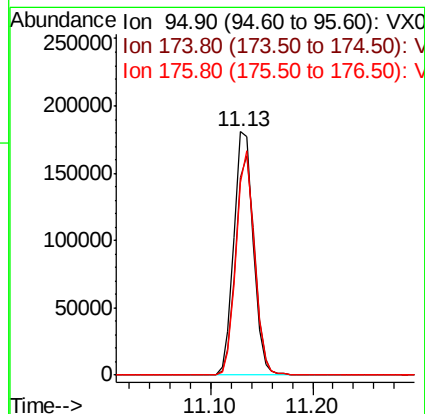
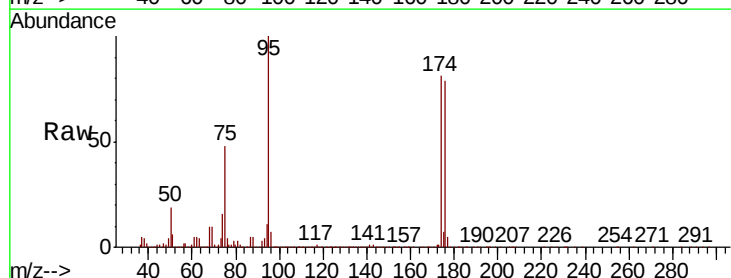
Tgt Ion: 95 Resp: 236938

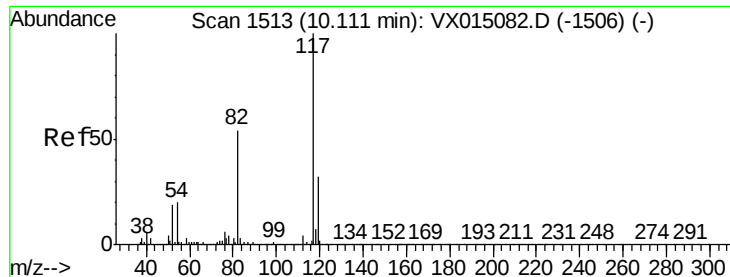
Ion Ratio Lower Upper

95 100

174 88.4 0.0 177.6

176 86.4 0.0 170.2

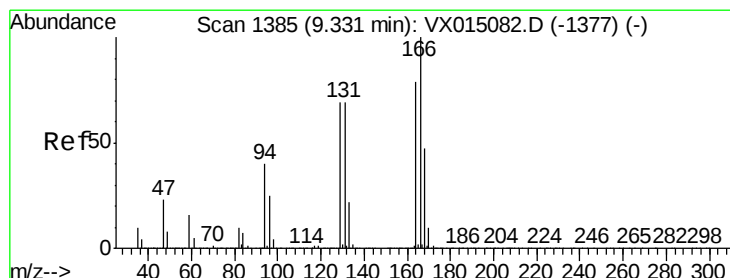
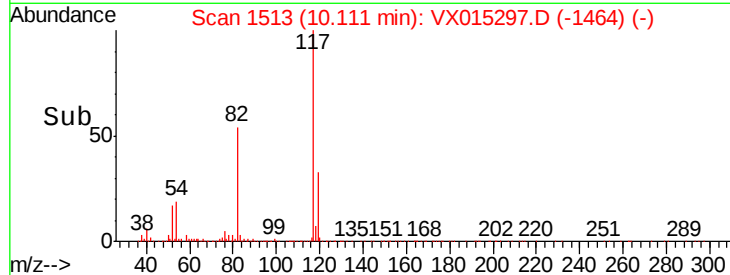
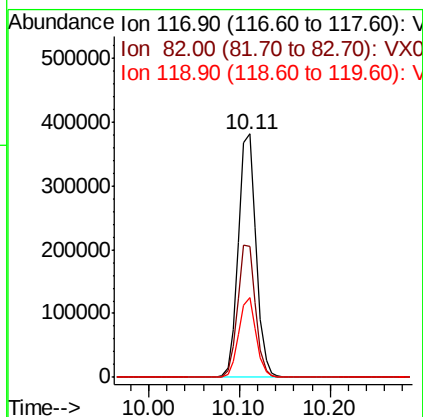
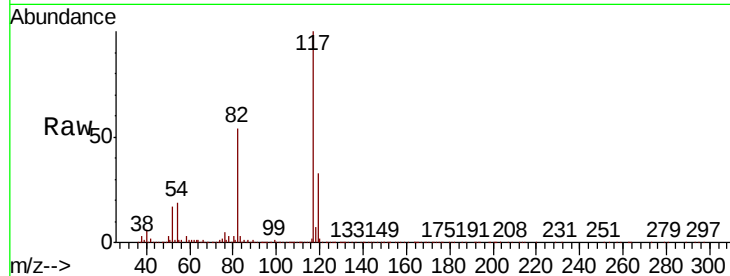




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX015297.D
Acq: 16 Mar 2020 16:20

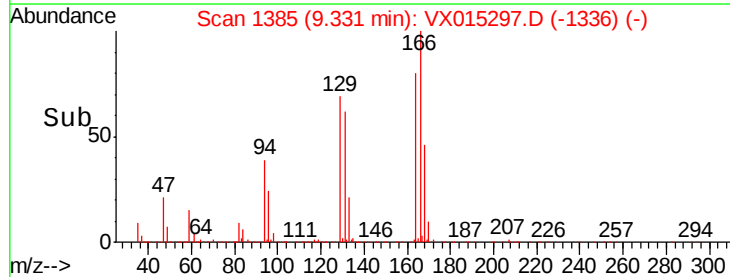
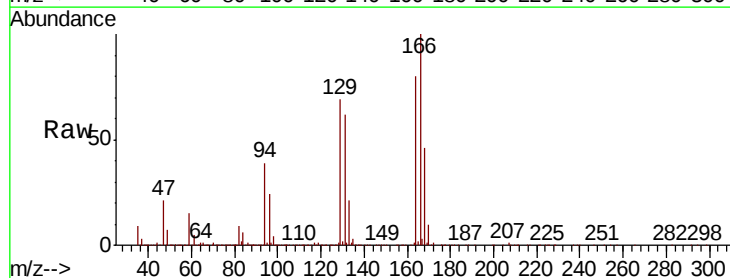
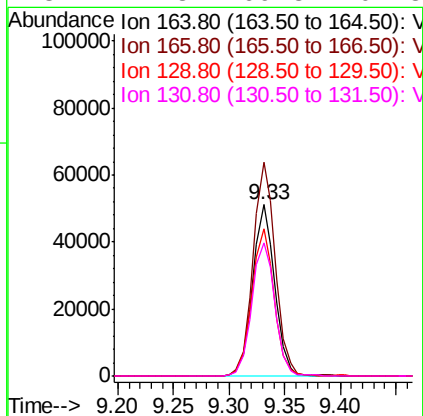
Instrument :
MSVOA_X
ClientSampleId :
MW202D-20200313

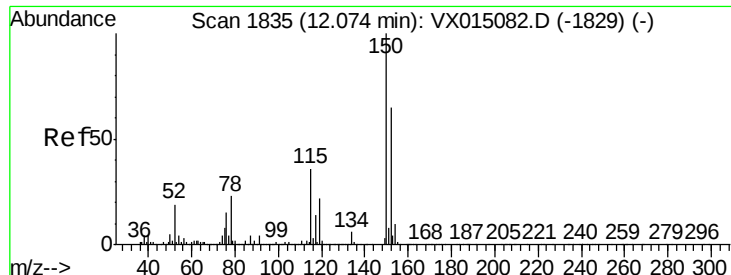
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.7	43.3	64.9
119	32.6	25.8	38.8



#64
Tetrachloroethene
Concen: 16.419 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX015297.D
Acq: 16 Mar 2020 16:20

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.8	101.1	151.7
129	85.7	69.4	104.0
131	77.3	69.8	104.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX015297.D

Acq: 16 Mar 2020 16:20

Instrument :

MSVOA_X

ClientSampleId :

MW202D-20200313

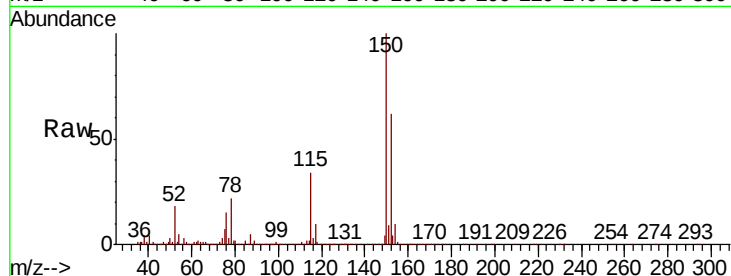
Tot Ion:152 Resp: 264209

Ion Ratio Lower Upper

152 100

115 55.1 38.2 114.6

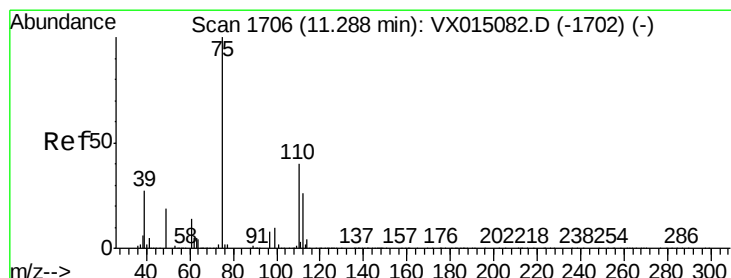
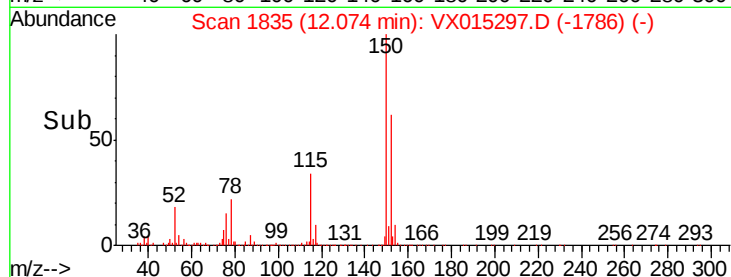
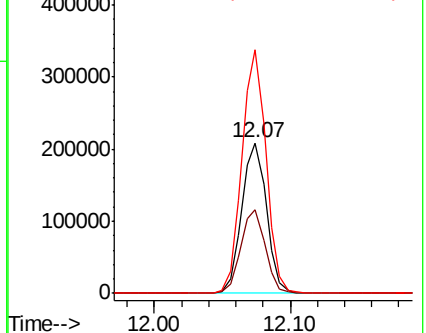
150 157.4 0.0 343.8



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: 21.262 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX015297.D

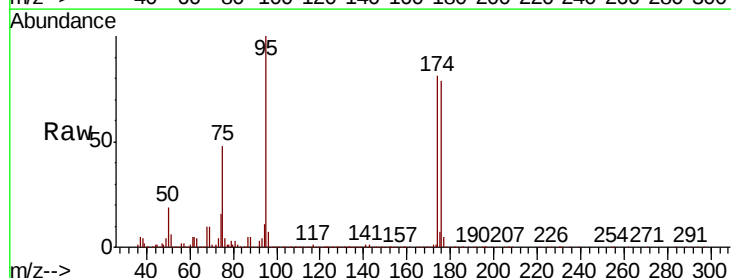
Acq: 16 Mar 2020 16:20

Tgt Ion: 75 Resp: 112053

Ion Ratio Lower Upper

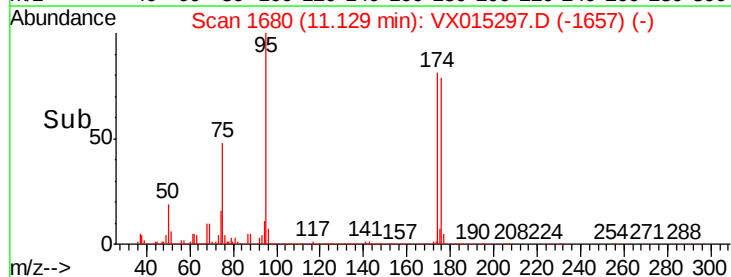
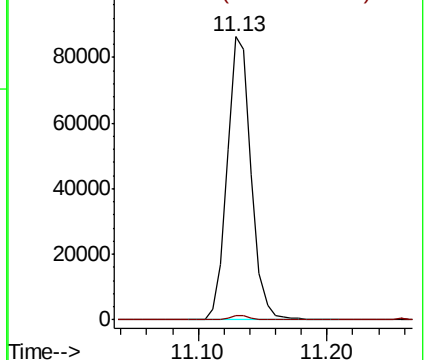
75 100

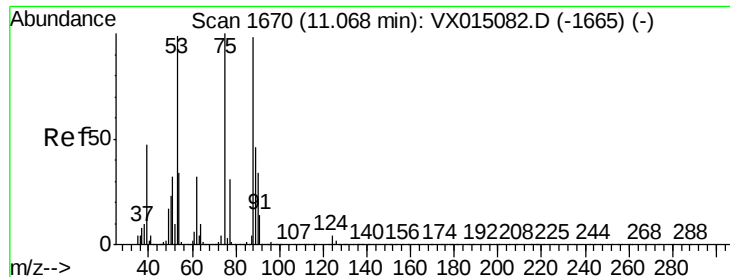
77 1.6 22.6 67.8#



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: 60.341 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX015297.D

Acq: 16 Mar 2020 16:20

Instrument :

MSVOA_X

ClientSampleId :

MW202D-20200313

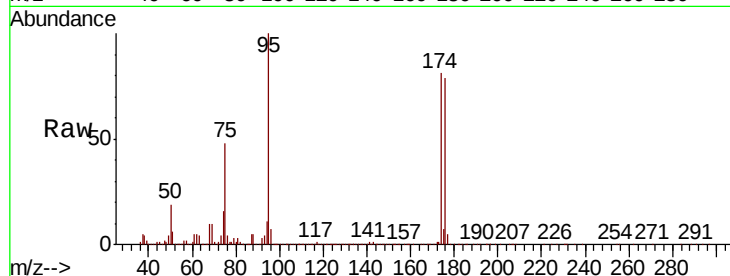
Tot Ion: 75 Resp: 112053

Ion Ratio Lower Upper

75 100

53 0.2 77.9 116.9#

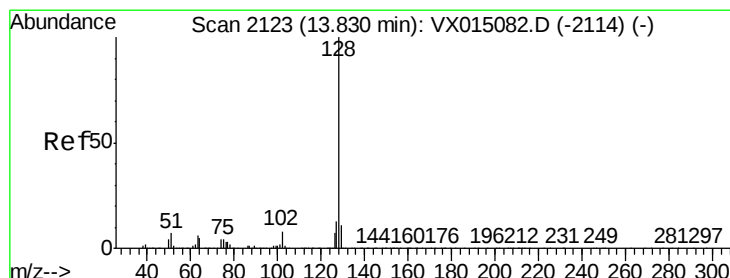
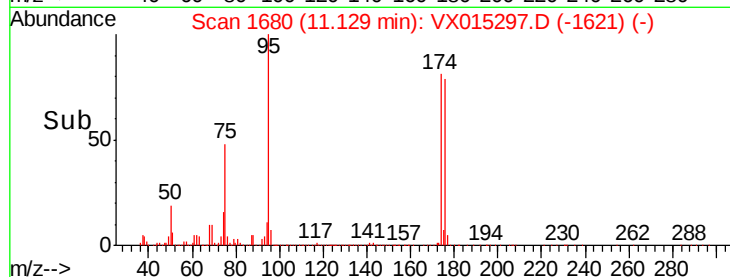
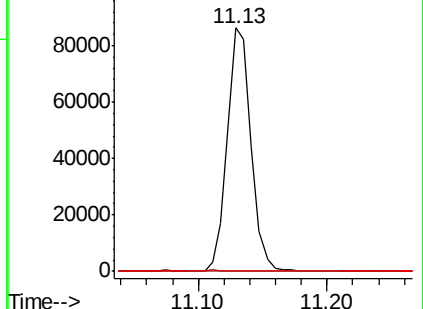
89 0.0 36.2 54.2#



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



#95

Naphthalene

Concen: 1.449 ug/l

RT: 13.84 min Scan# 2124

Delta R.T. 0.01 min

Lab File: VX015297.D

Acq: 16 Mar 2020 16:20

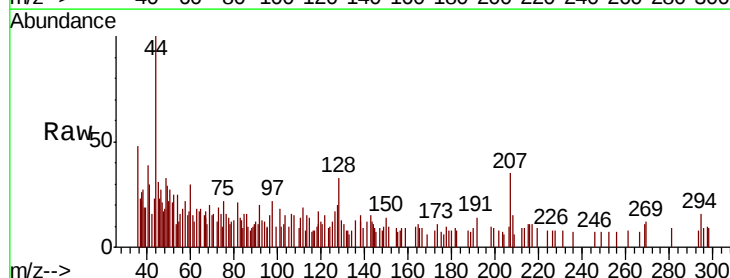
Tgt Ion: 128 Resp: 525

Ion Ratio Lower Upper

128 100

127 42.3 10.3 15.5#

129 8.4 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

