

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040820\
 Data File : VX015572.D
 Acq On : 08 Apr 2020 16:24
 Operator : JC/SP
 Sample : L2190-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ST008MW158-200407

Quant Time: Apr 09 06:22:27 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 09:35:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	1085660	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1690859	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1647344	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	919830	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	704759	46.03	ug/l	0.00
Spiked Amount			Recovery	=	92.06%	
35) Dibromofluoromethane	5.47	113	537493	49.73	ug/l	0.00
Spiked Amount			Recovery	=	99.46%	
50) Toluene-d8	8.70	98	2061255	51.80	ug/l	0.00
Spiked Amount			Recovery	=	103.60%	
62) 4-Bromofluorobenzene	11.12	95	900559	55.69	ug/l	0.00
Spiked Amount			Recovery	=	111.38%	

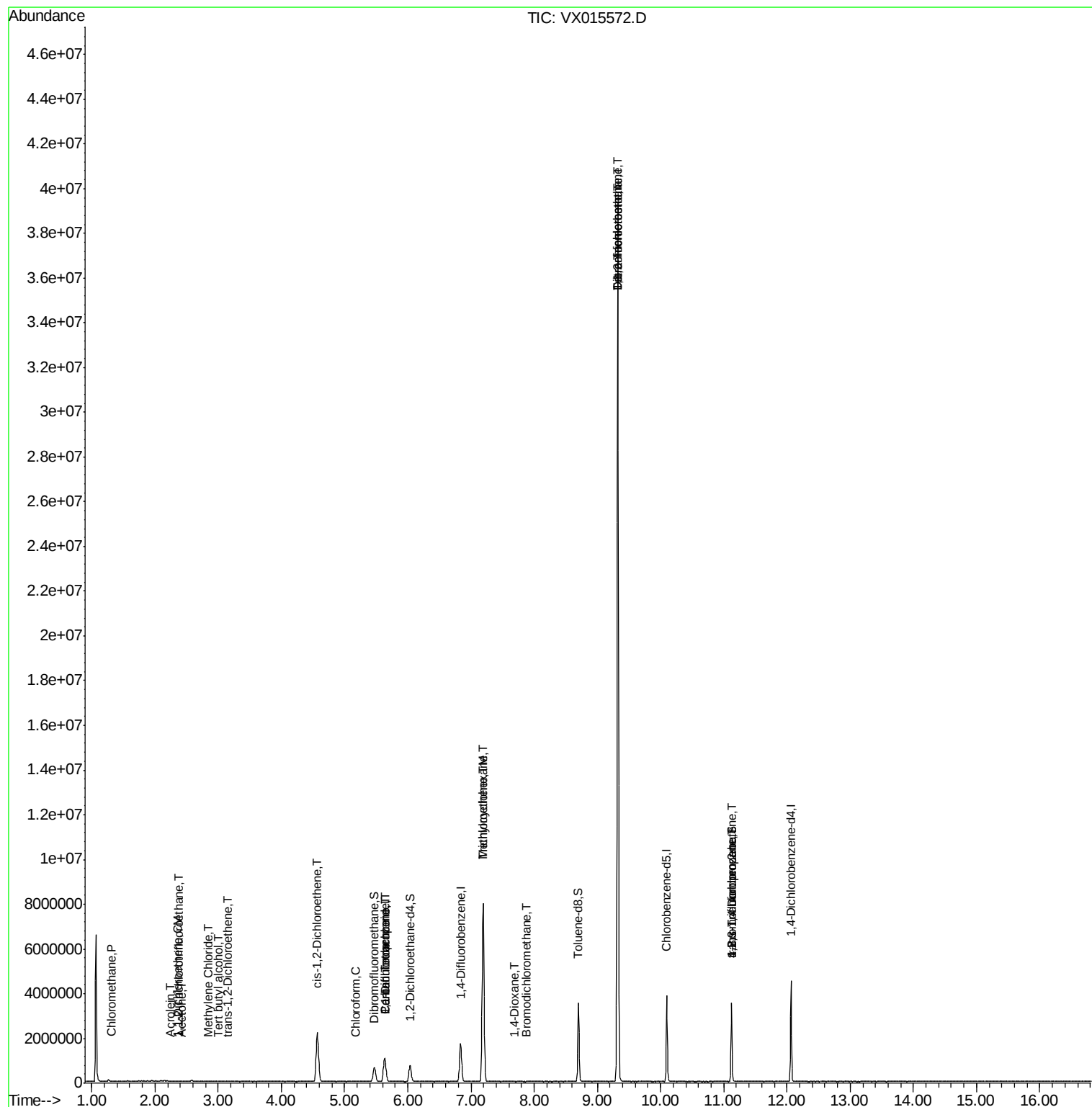
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	3004	0.247	ug/l #	81
5) Bromomethane	1.63	94	1433	Below Cal	#	41
9) 1,1,2-Trichlorotrifluoroet	2.37	101	2542	0.260	ug/l #	78
11) Tert butyl alcohol	3.01	59	1765	0.482	ug/l #	27
12) 1,1-Dichloroethene	2.36	96	2647	0.258	ug/l #	80
13) Acrolein	2.25	56	900	0.431	ug/l	87
16) Acetone	2.42	43	11386	1.731	ug/l	94
20) Methylene Chloride	2.84	84	3952	0.322	ug/l #	82
21) trans-1,2-Dichloroethene	3.15	96	9877	0.868	ug/l	95
27) cis-1,2-Dichloroethene	4.57	96	1344636	102.171	ug/l	91
30) Chloroform	5.19	83	22542	1.049	ug/l	99
36) 1,1-Dichloropropene	5.63	75	79627	5.111	ug/l #	53
38) Carbon Tetrachloride	5.64	117	101730	6.029	ug/l #	14
39) Methylcyclohexane	7.20	83	35737	1.989	ug/l #	1
44) Trichloroethene	7.19	130	3051704	245.192	ug/l	95
47) Bromodichloromethane	7.89	83	4390	0.252	ug/l #	92
49) 1,4-Dioxane	7.69	88	299	0.937	ug/l #	1
55) 1,1,2-Trichloroethane	9.32	97	71749	6.224	ug/l #	3
60) Dibromochloromethane	9.32	129	7199998	519.790	ug/l #	11
64) Tetrachloroethene	9.32	164	7949998	639.474	ug/l	98
76) 1,2,3-Trichloropropane	11.12	75	464524	24.558	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	464524	58.925	ug/l #	10

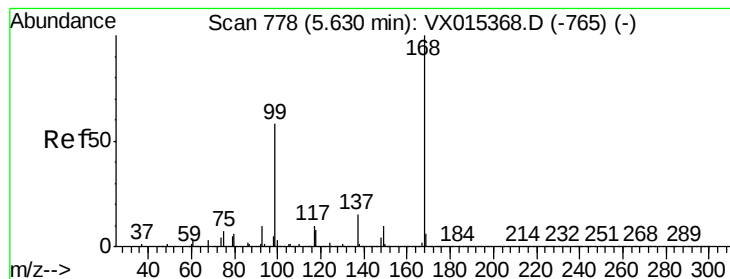
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 09 06:22:27 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X032720W.M
Quant Title : SW846 8260
QLast Update : Fri Mar 27 09:35:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015572.D

Acq: 08 Apr 2020 16:24

Instrument :

MSVOA_X

ClientSampleId :

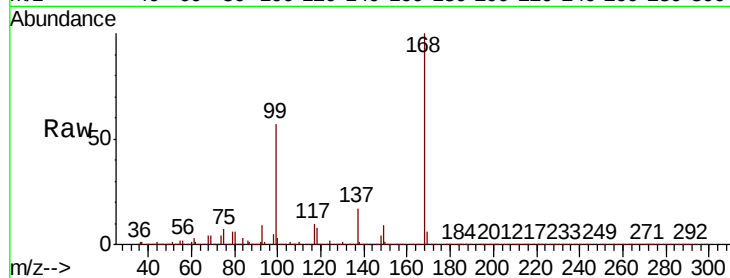
STOO8MW158-200407

Tot Ion:168 Resp: 1085660

Ion Ratio Lower Upper

168 100

99 56.4 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

400000

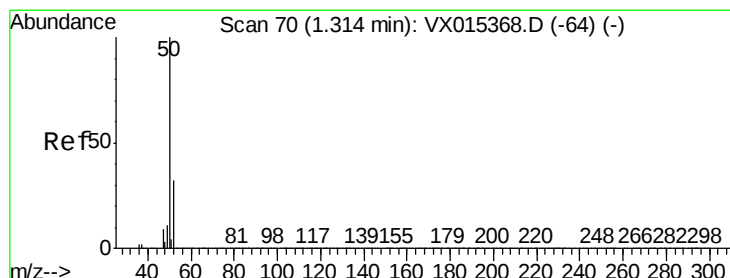
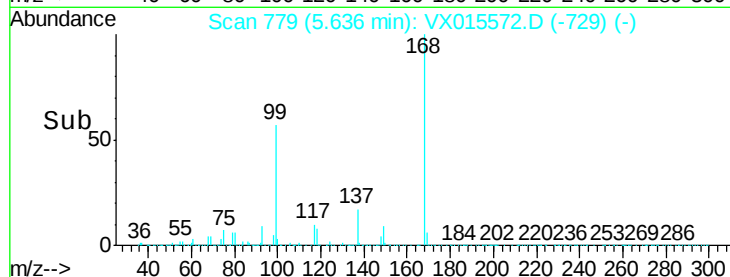
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 0.247 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.00 min

Lab File: VX015572.D

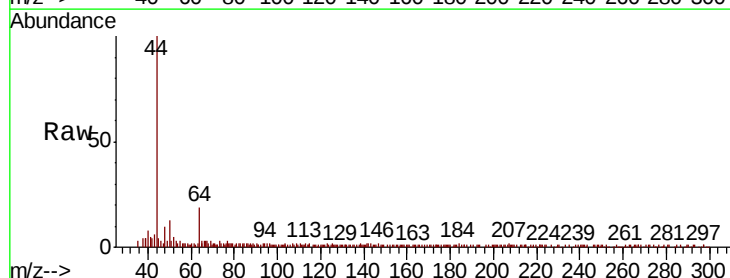
Acq: 08 Apr 2020 16:24

Tgt Ion: 50 Resp: 3004

Ion Ratio Lower Upper

50 100

52 21.0 25.3 37.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

3000

2500

2000

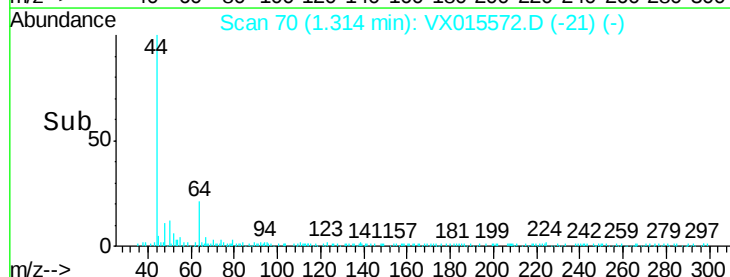
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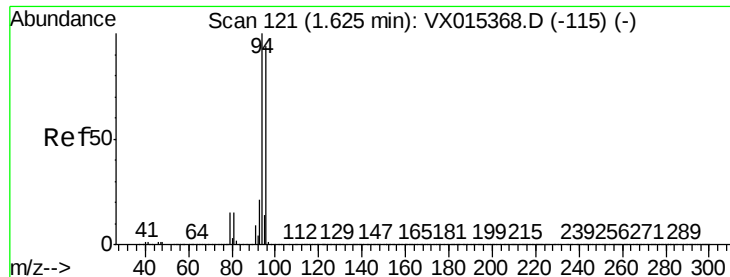
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX015572.D

Acq: 08 Apr 2020 16:24

Instrument :

MSVOA_X

ClientSampleId :

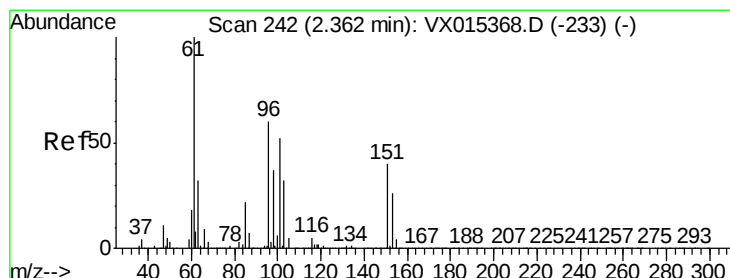
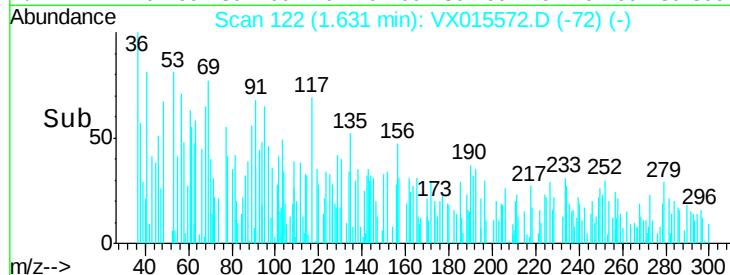
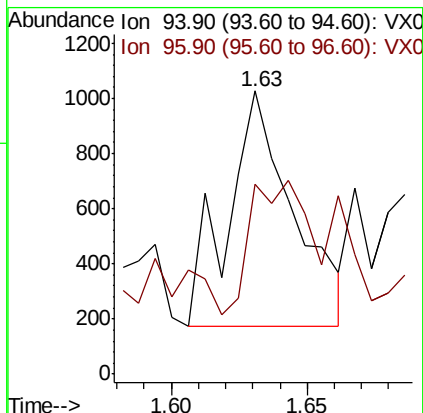
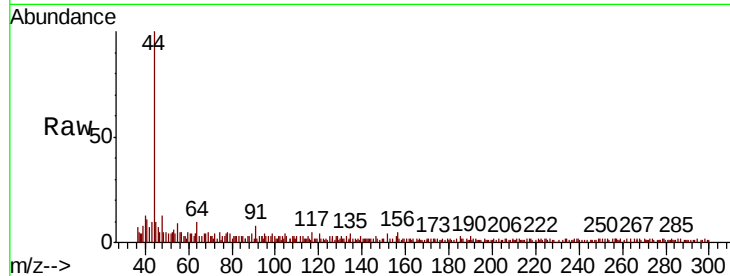
STO08MW158-200407

Tot Ion: 94 Resp: 1433

Ion Ratio Lower Upper

94 100

96 36.5 74.8 112.2#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.260 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX015572.D

Acq: 08 Apr 2020 16:24

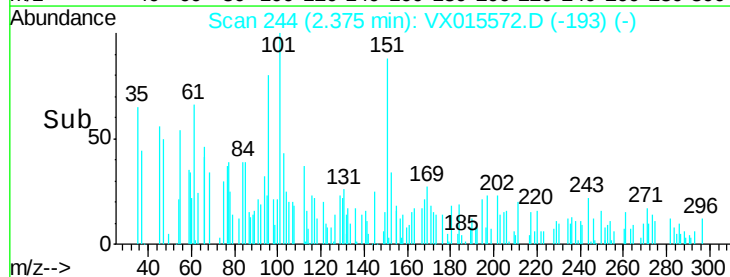
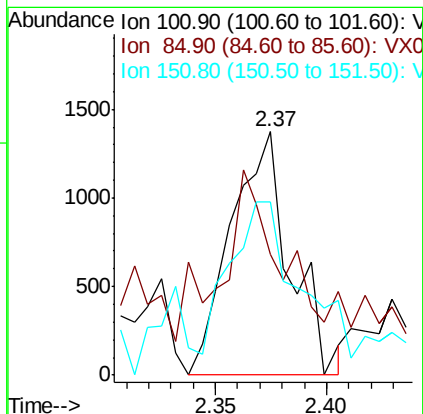
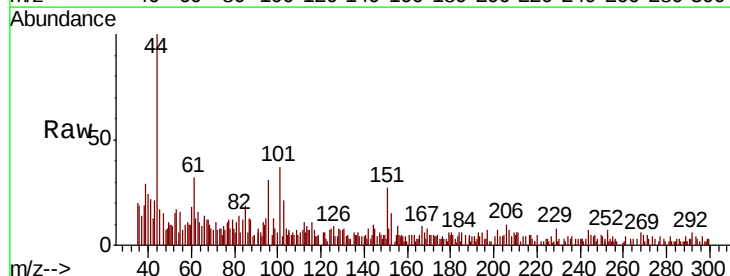
Tgt Ion:101 Resp: 2542

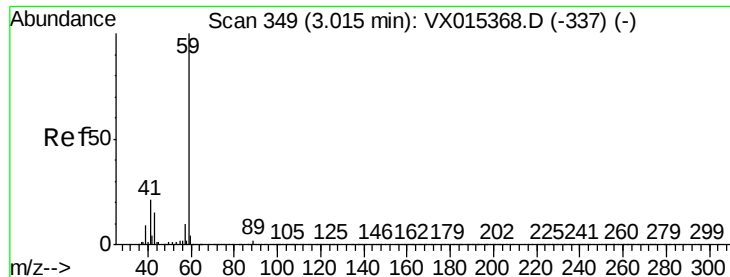
Ion Ratio Lower Upper

101 100

85 74.5 35.0 52.4#

151 73.4 64.1 96.1



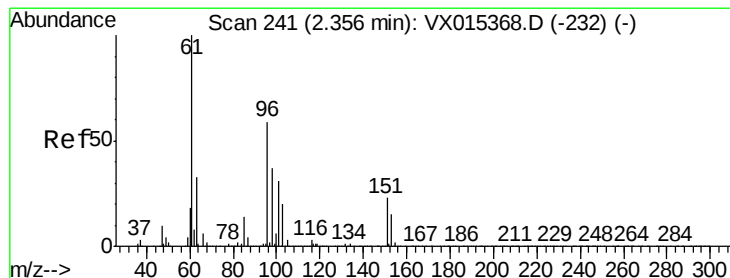
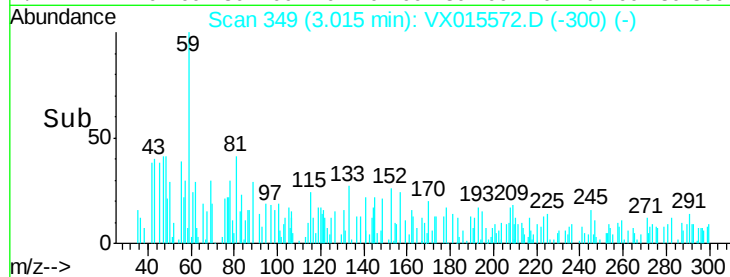
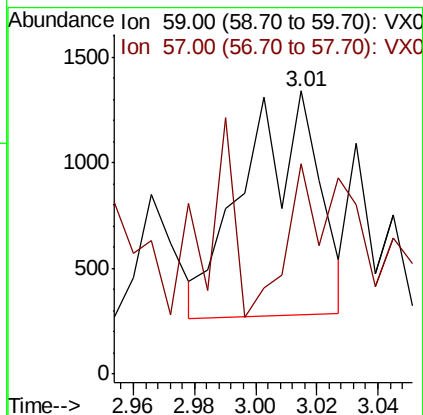
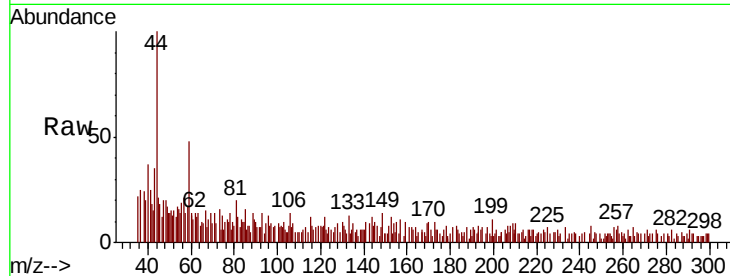


#11

Tert butyl alcohol
Concen: 0.482 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.00 min
Lab File: VX015572.D
Acq: 08 Apr 2020 16:24

Instrument :
MSVOA_X
ClientSampleId :
STOO8MW158-200407

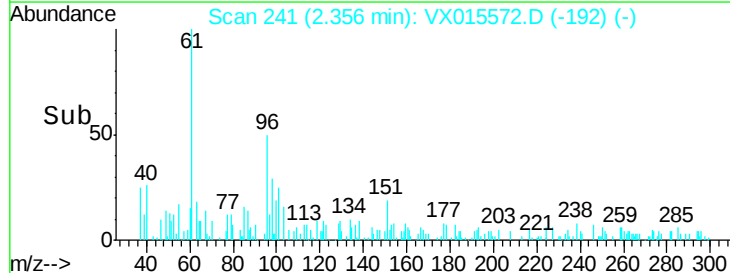
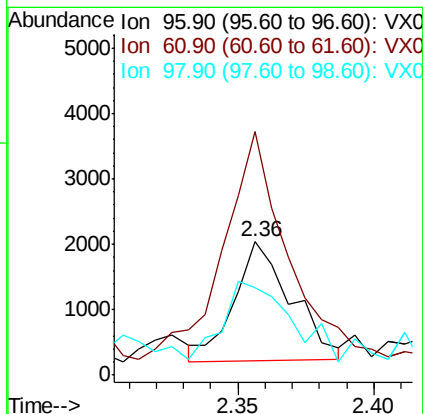
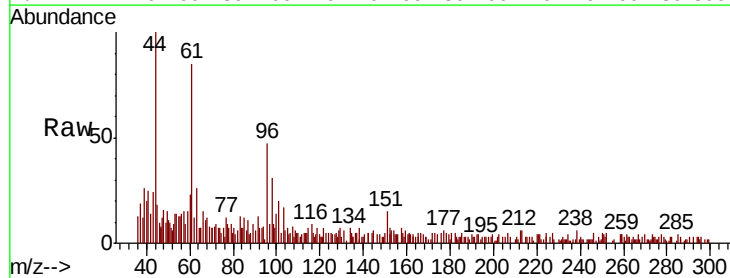
Tot Ion: 59 Resp: 1765
Ion Ratio Lower Upper
59 100
57 37.1 8.1 12.1#

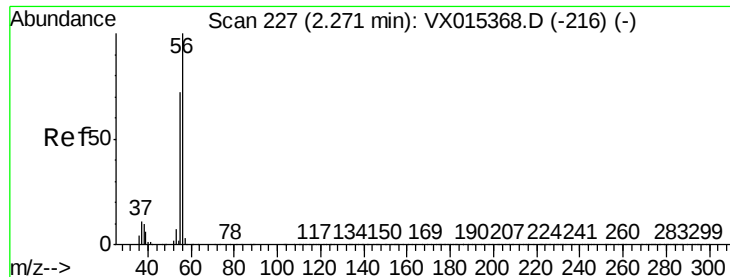


#12

1,1-Dichloroethene
Concen: 0.258 ug/l
RT: 2.36 min Scan# 241
Delta R.T. -0.00 min
Lab File: VX015572.D
Acq: 08 Apr 2020 16:24

Tgt Ion: 96 Resp: 2647
Ion Ratio Lower Upper
96 100
61 186.5 135.7 203.5
98 94.1 50.6 75.8#

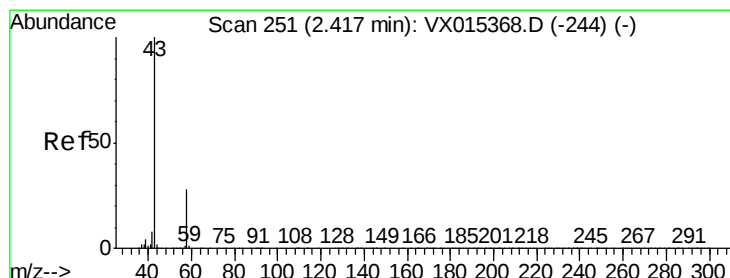
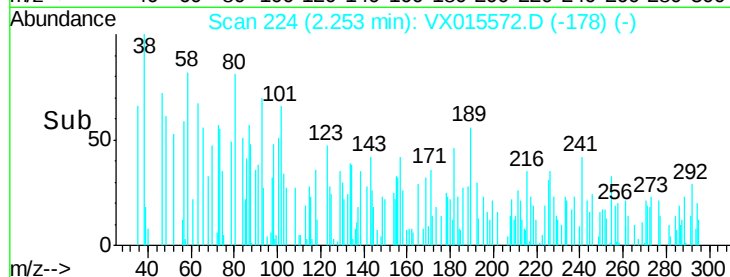
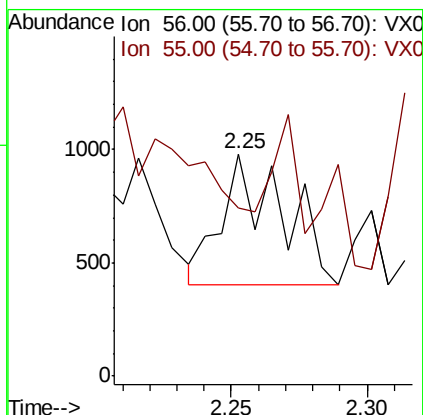
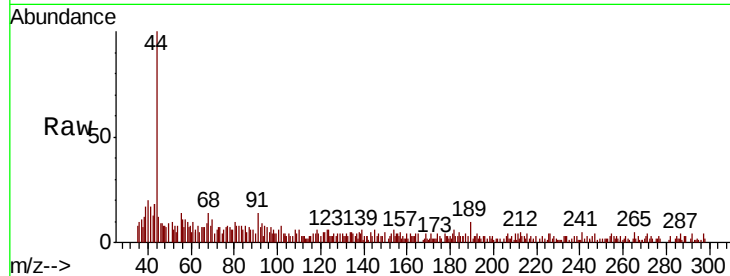




#13
Acrolein
Concen: 0.431 ug/l
RT: 2.25 min Scan# 224
Delta R.T. -0.02 min
Lab File: VX015572.D
Acq: 08 Apr 2020 16:24

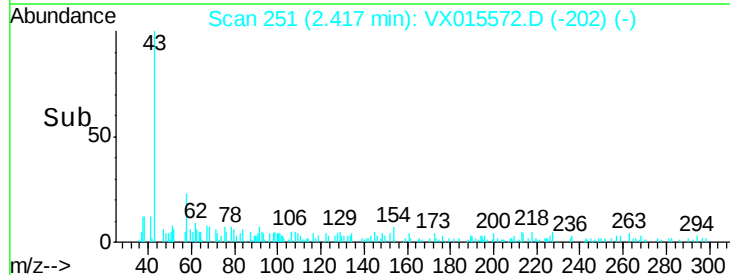
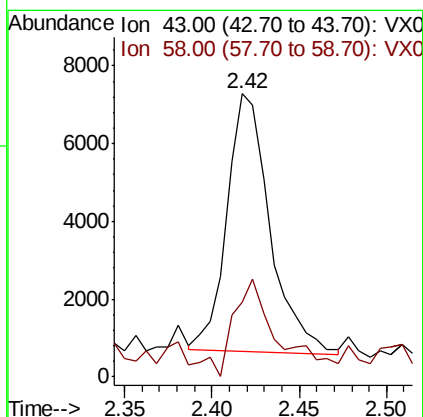
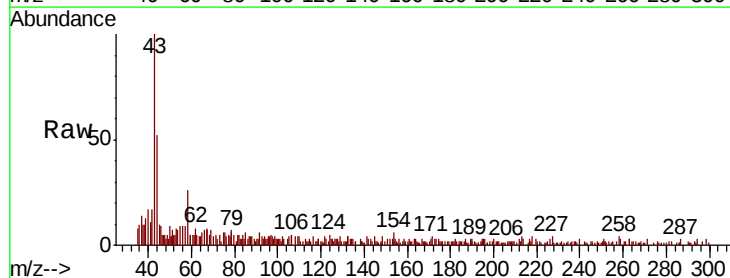
Instrument :
MSVOA_X
ClientSampleId :
STO08MW158-200407

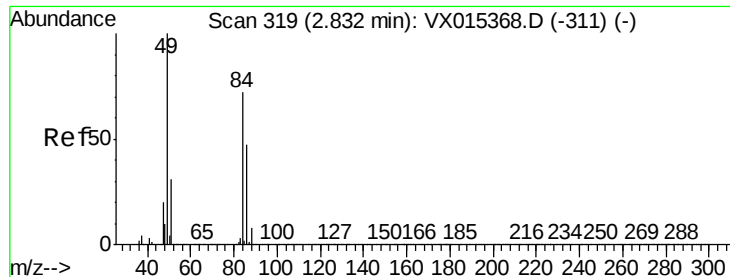
Tot Ion: 56 Resp: 900
Ion Ratio Lower Upper
56 100
55 82.0 57.0 85.4



#16
Acetone
Concen: 1.731 ug/l
RT: 2.42 min Scan# 251
Delta R.T. -0.00 min
Lab File: VX015572.D
Acq: 08 Apr 2020 16:24

Tgt Ion: 43 Resp: 11386
Ion Ratio Lower Upper
43 100
58 24.6 22.1 33.1

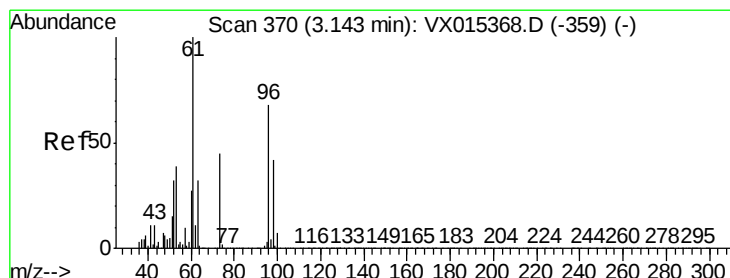
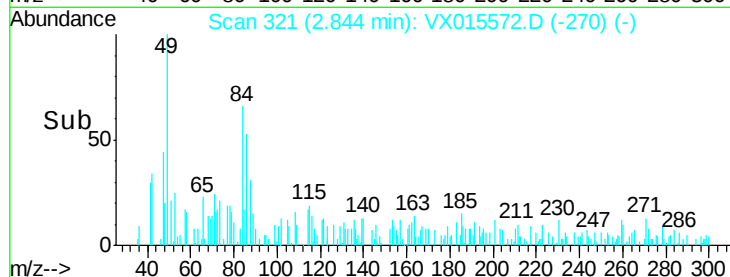
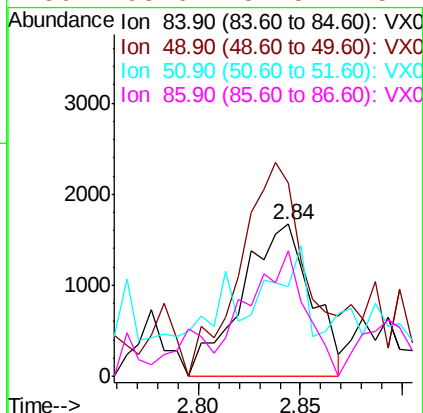
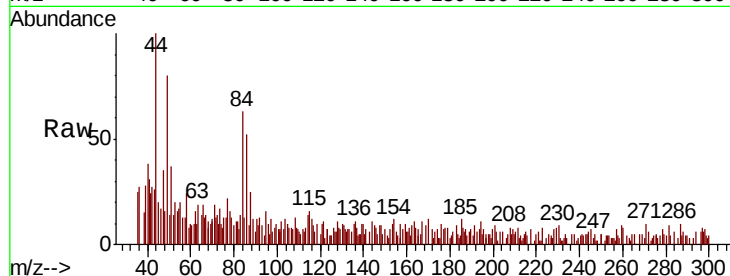




#20
Methvlene Chloride
Concen: 0.322 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.01 min
Lab File: VX015572.D
Acq: 08 Apr 2020 16:24

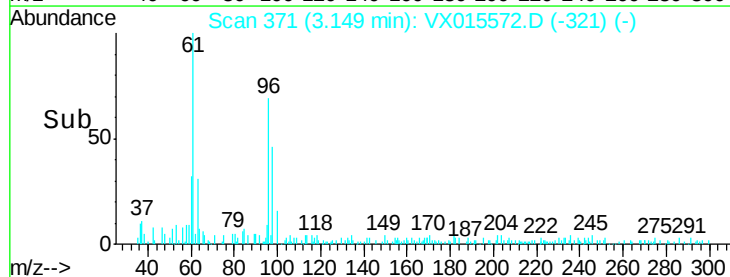
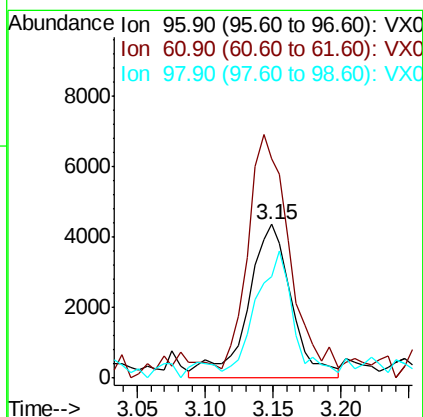
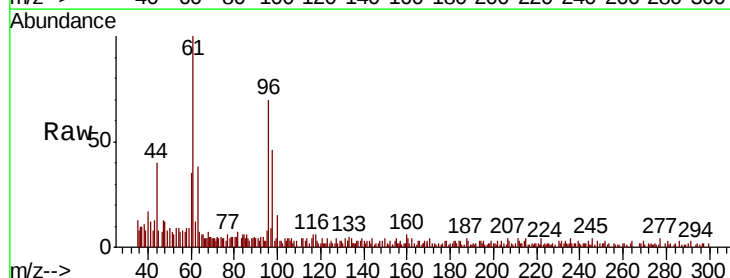
Instrument :
MSVOA_X
ClientSampleId :
STOO8MW158-200407

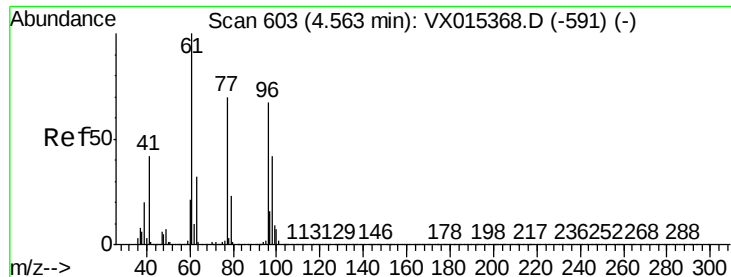
Tot Ion: 84 Resp: 3952
Ion Ratio Lower Upper
84 100
49 127.1 111.3 166.9
51 34.4 34.0 51.0
86 95.6 52.5 78.7#



#21
trans-1,2-Dichloroethene
Concen: 0.868 ug/l
RT: 3.15 min Scan# 371
Delta R.T. 0.01 min
Lab File: VX015572.D
Acq: 08 Apr 2020 16:24

Tgt Ion: 96 Resp: 9877
Ion Ratio Lower Upper
96 100
61 149.7 116.9 175.3
98 69.1 48.6 73.0

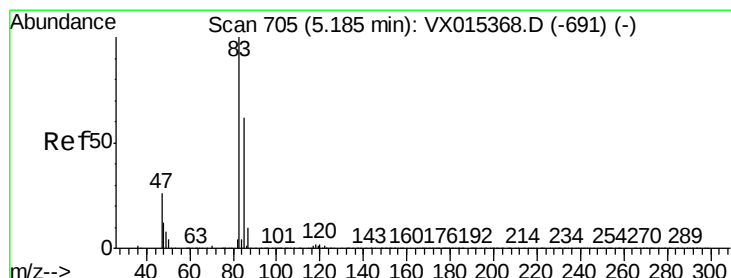
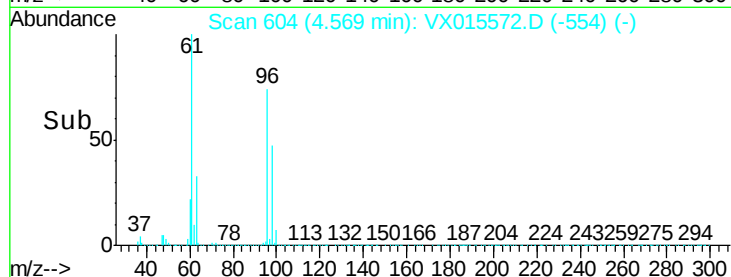
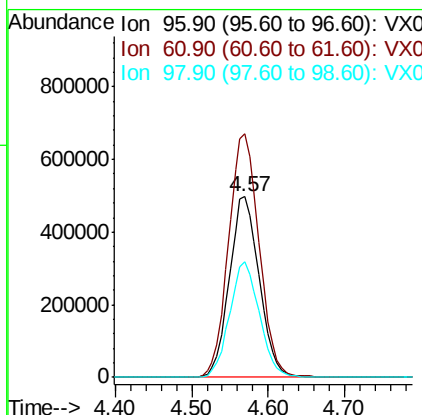
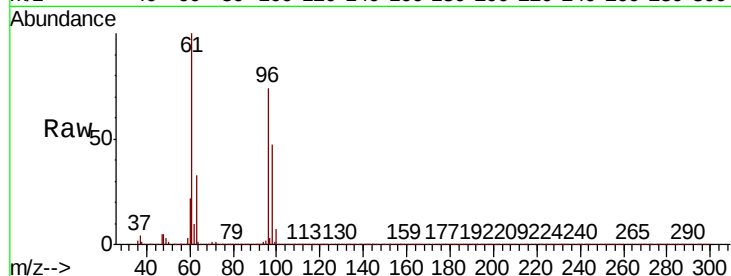




#27
 cis-1,2-Dichloroethene
 Concen: 102.171 ug/l
 RT: 4.57 min Scan# 604
 Delta R.T. 0.01 min
 Lab File: VX015572.D
 Acq: 08 Apr 2020 16:24

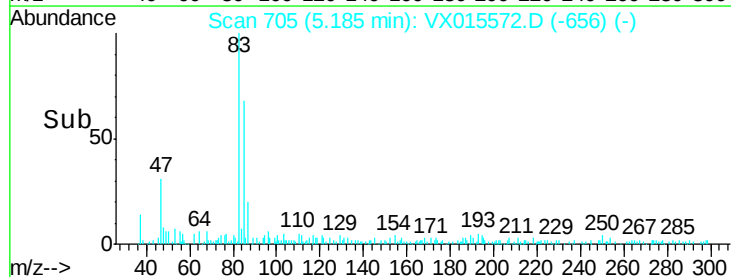
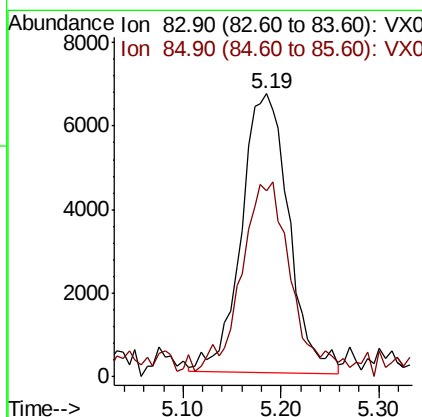
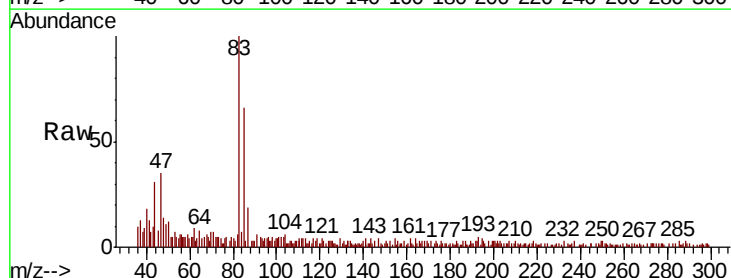
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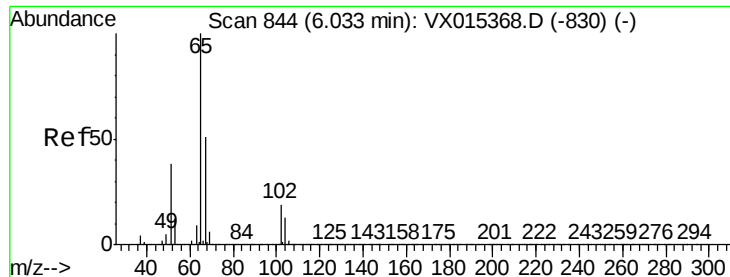
Tot Ion: 96 Resp: 1344636
 Ion Ratio Lower Upper
 96 100
 61 137.6 0.0 308.4
 98 63.6 0.0 129.2



#30
 Chloroform
 Concen: 1.049 ug/l
 RT: 5.19 min Scan# 705
 Delta R.T. -0.00 min
 Lab File: VX015572.D
 Acq: 08 Apr 2020 16:24

Tgt Ion: 83 Resp: 22542
 Ion Ratio Lower Upper
 83 100
 85 62.9 49.5 74.3





#33

1,2-Dichloroethane-d4

Concen: 46.026 ug/l

RT: 6.03 min Scan# 844

Delta R.T. -0.00 min

Lab File: VX015572.D

Acq: 08 Apr 2020 16:24

Instrument :

MSVOA_X

ClientSampleId :

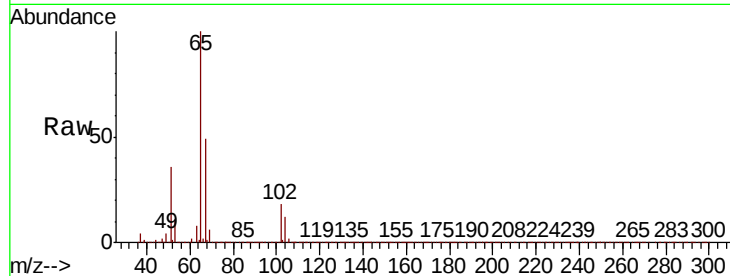
STOO8MW158-200407

Tot Ion: 65 Resp: 704759

Ion Ratio Lower Upper

65 100

67 50.7 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.03

300000

250000

200000

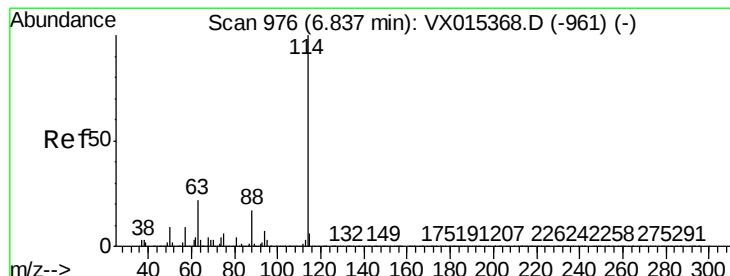
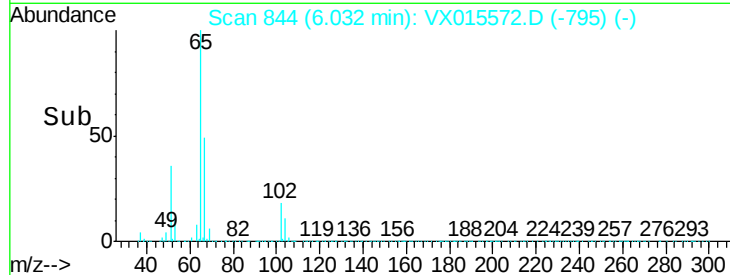
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. -0.00 min

Lab File: VX015572.D

Acq: 08 Apr 2020 16:24

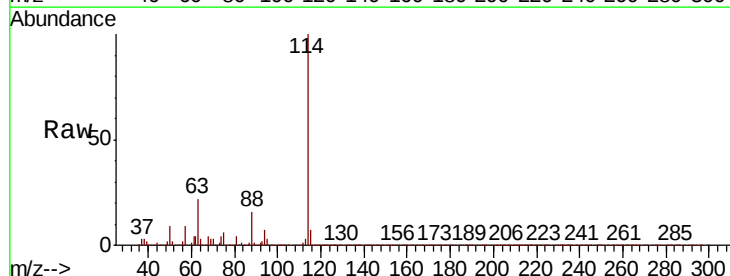
Tgt Ion: 114 Resp: 1690859

Ion Ratio Lower Upper

114 100

63 22.0 0.0 44.2

88 16.3 0.0 33.8



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

1000000

800000

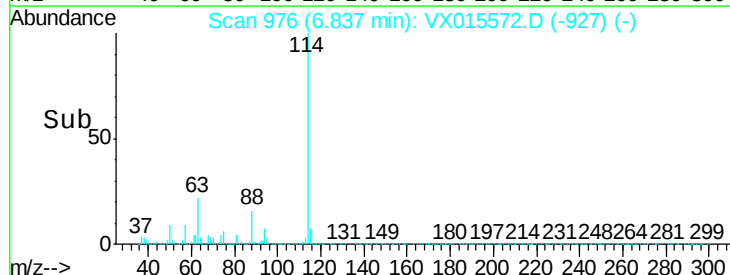
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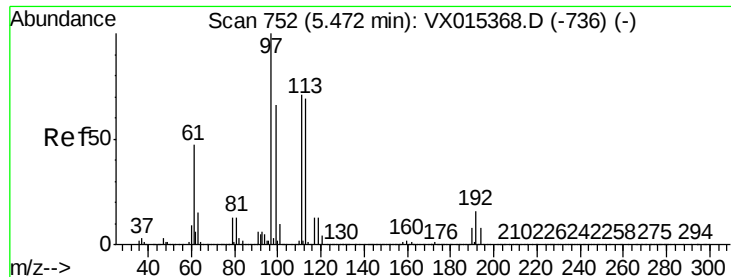
400000

200000

0

Time-->

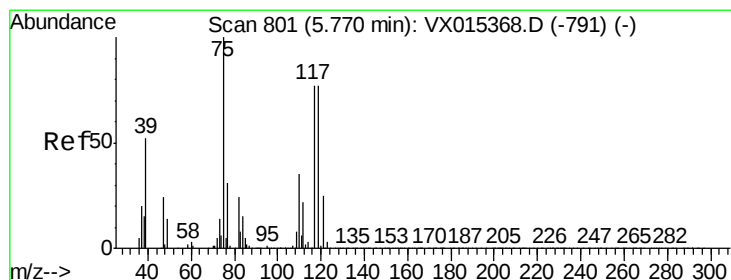
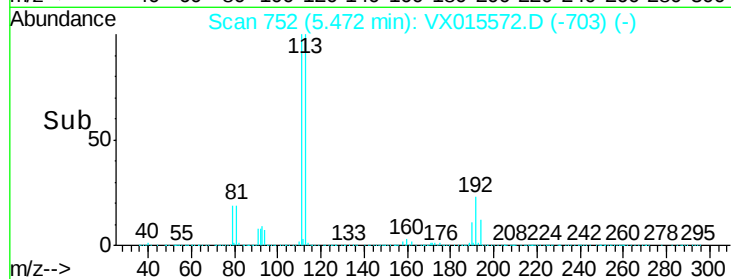
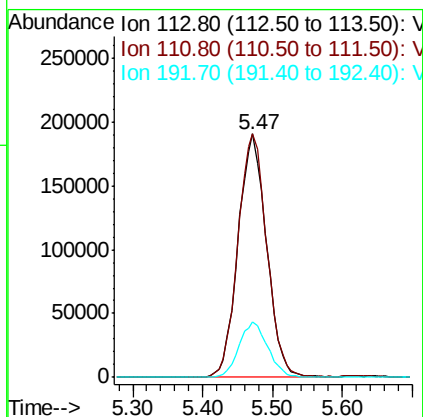
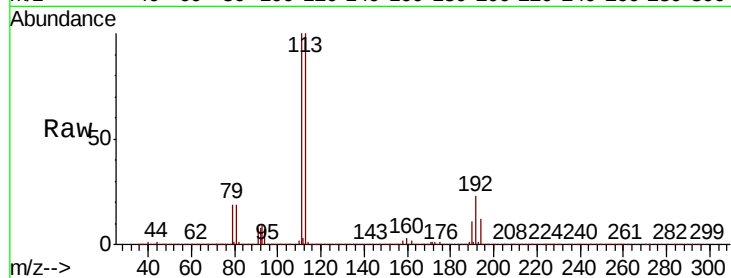




#35
Dibromofluoromethane
Concen: 49.729 ug/l
RT: 5.47 min Scan# 752
Delta R.T. -0.00 min
Lab File: VX015572.D
Acq: 08 Apr 2020 16:24

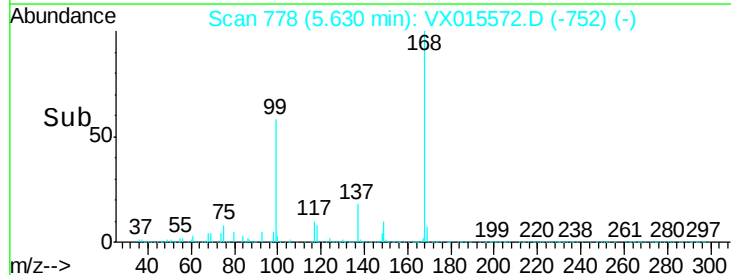
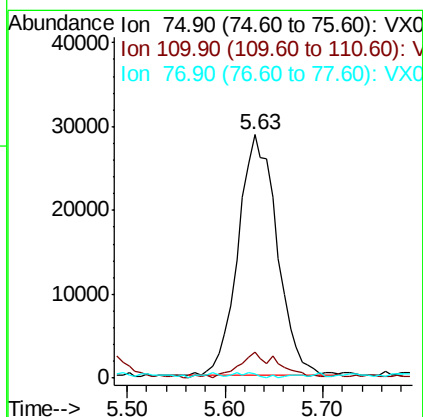
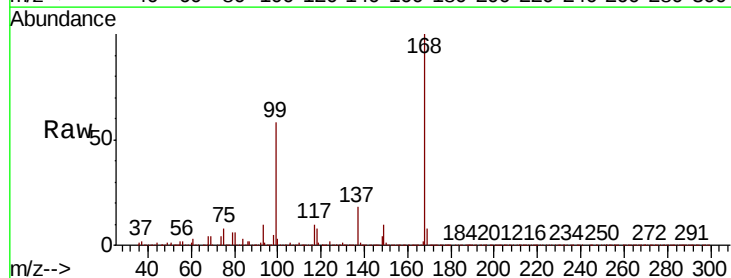
Instrument :
MSVOA_X
ClientSampleId :
STOO8MW158-200407

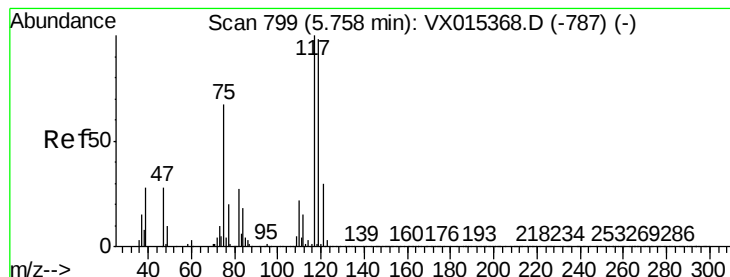
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.3	81.5	122.3
192	22.7	17.8	26.6



#36
1,1-Dichloropropene
Concen: 5.111 ug/l
RT: 5.63 min Scan# 778
Delta R.T. -0.14 min
Lab File: VX015572.D
Acq: 08 Apr 2020 16:24

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.2	17.1	51.3#
77	0.3	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 6.029 ug/l

RT: 5.64 min Scan# 779

Delta R.T. -0.12 min

Lab File: VX015572.D

Acq: 08 Apr 2020 16:24

Instrument :

MSVOA_X

ClientSampleId :

STOO8MW158-200407

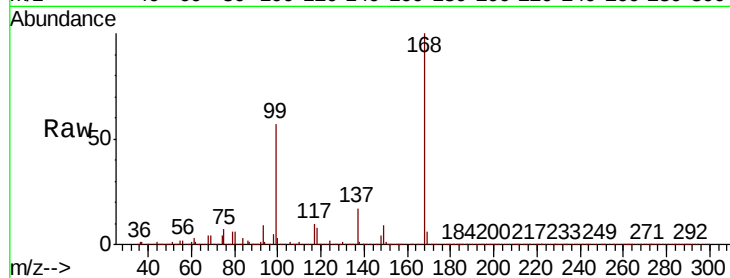
Tot Ion:117 Resp: 101730

Ion Ratio Lower Upper

117 100

119 3.5 78.0 117.0#

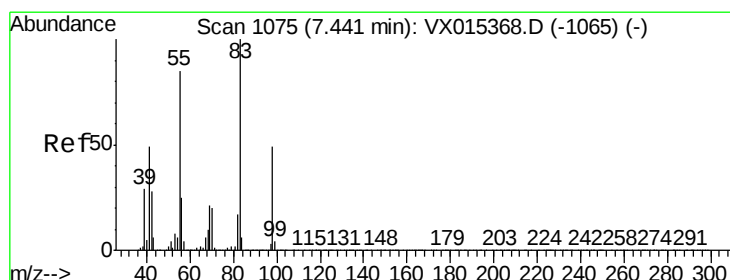
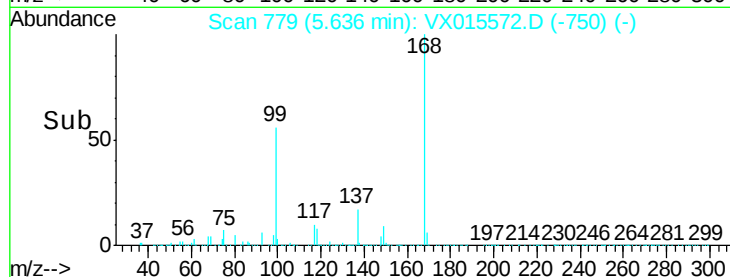
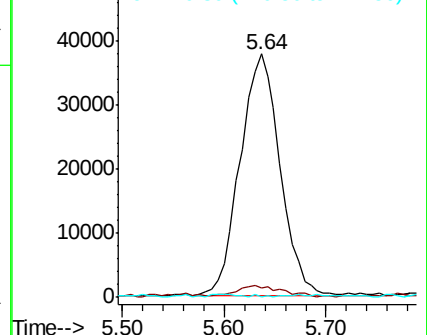
121 0.0 23.8 35.8#



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: 1.989 ug/l

RT: 7.20 min Scan# 1035

Delta R.T. -0.24 min

Lab File: VX015572.D

Acq: 08 Apr 2020 16:24

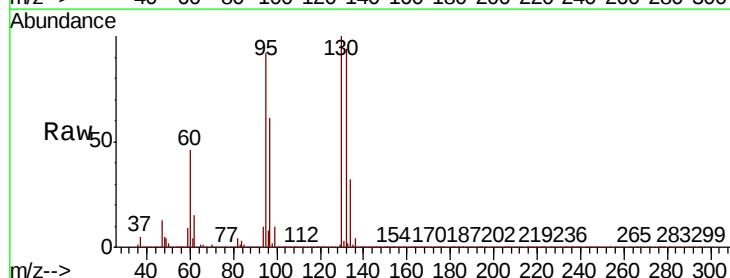
Tgt Ion: 83 Resp: 35737

Ion Ratio Lower Upper

83 100

55 3.2 67.8 101.6#

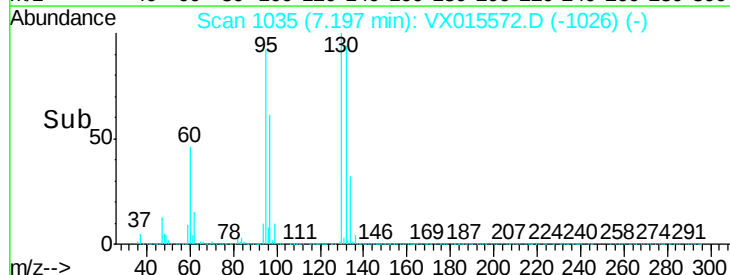
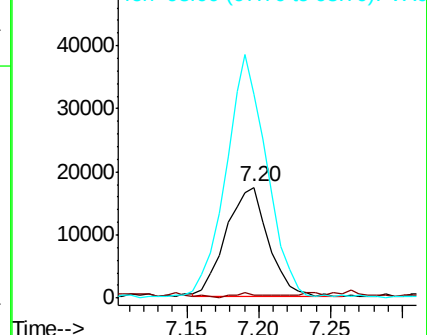
98 187.7 39.3 58.9#

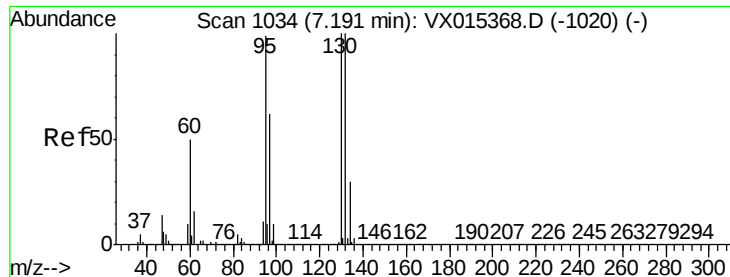


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 245.192 ug/l

RT: 7.19 min Scan# 1034

Delta R.T. -0.00 min

Lab File: VX015572.D

Acq: 08 Apr 2020 16:24

Instrument :

MSVOA_X

ClientSampleId :

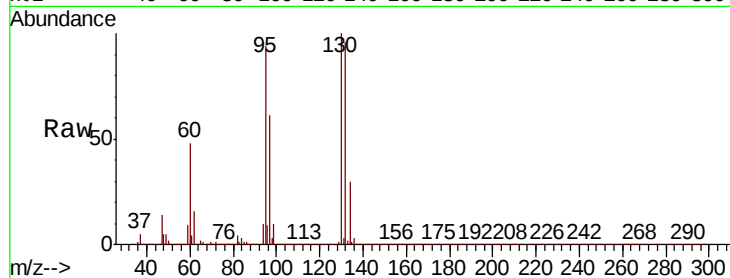
STOO8MW158-200407

Tot Ion:130 Resp: 3051704

Ion Ratio Lower Upper

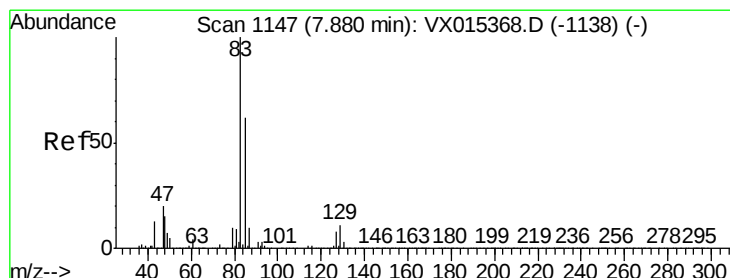
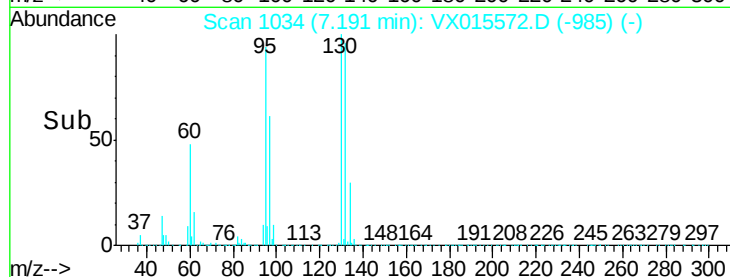
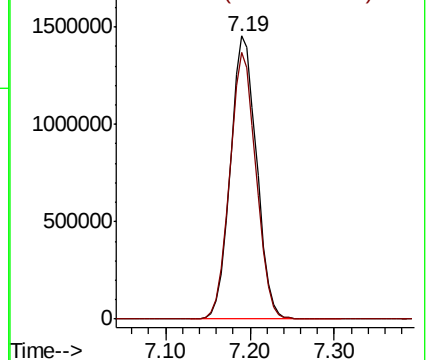
130 100

95 94.3 0.0 199.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#47

Bromodichloromethane

Concen: 0.252 ug/l

RT: 7.89 min Scan# 1148

Delta R.T. 0.01 min

Lab File: VX015572.D

Acq: 08 Apr 2020 16:24

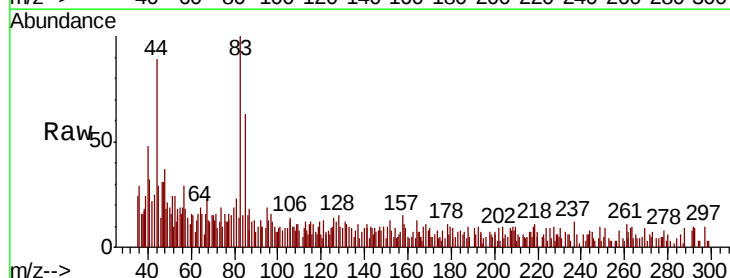
Tgt Ion: 83 Resp: 4390

Ion Ratio Lower Upper

83 100

85 57.1 49.7 74.5

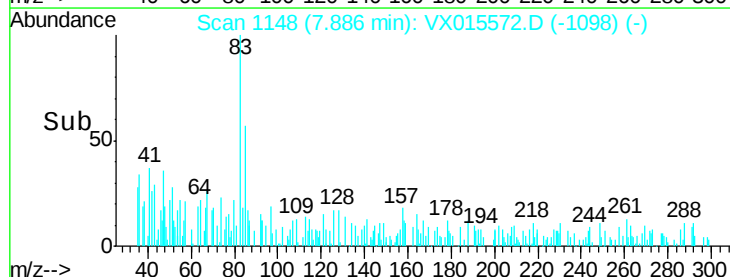
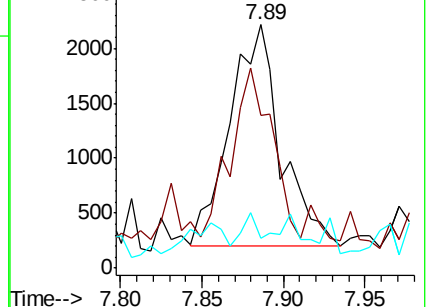
127 0.0 6.7 10.1#

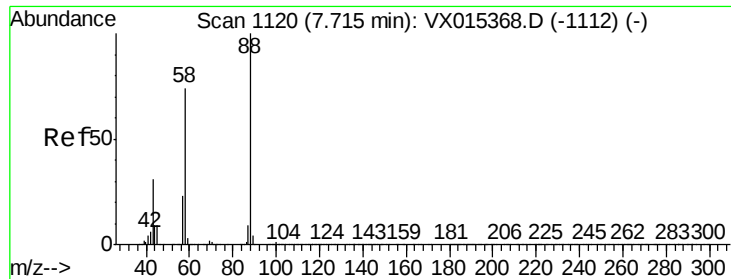


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V





#49

1,4-Dioxane

Concen: 0.937 ug/l

RT: 7.69 min Scan# 1116

Delta R.T. -0.02 min

Lab File: VX015572.D

Acq: 08 Apr 2020 16:24

Instrument :

MSVOA_X

ClientSampleId :

STO08MW158-200407

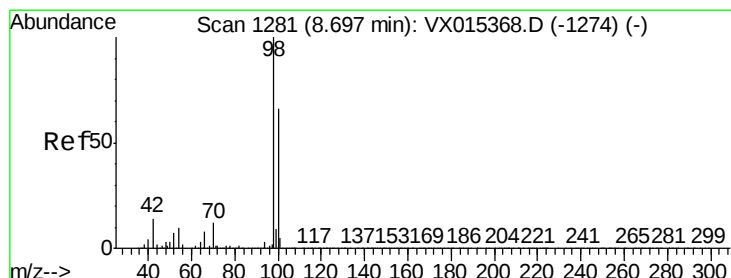
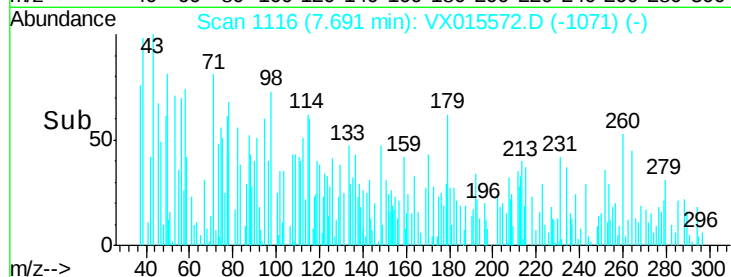
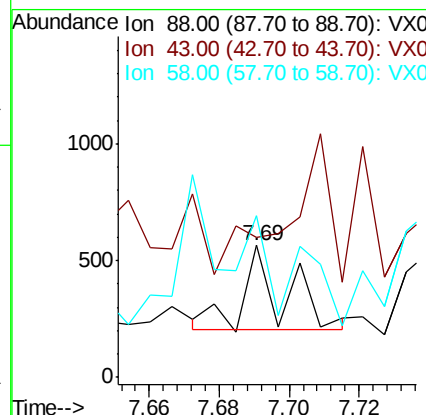
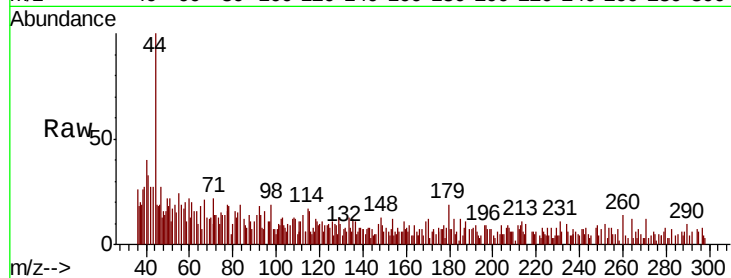
Tot Ion: 88 Resp: 299

Ion Ratio Lower Upper

88 100

43 137.1 30.1 45.1#

58 0.0 60.6 90.8#



#50

Toluene-d8

Concen: 51.798 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VX015572.D

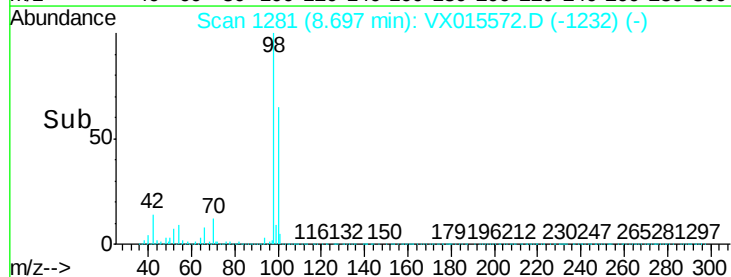
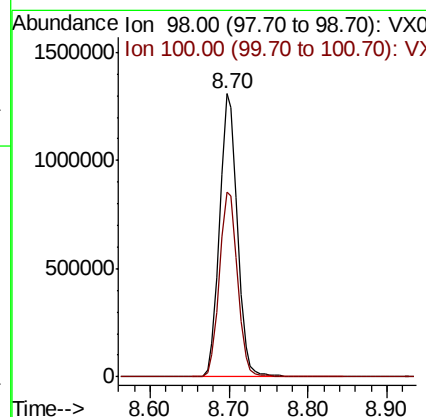
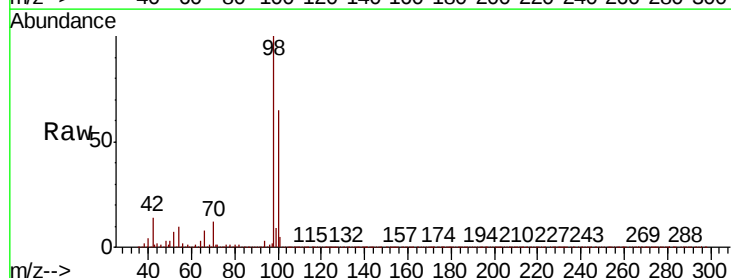
Acq: 08 Apr 2020 16:24

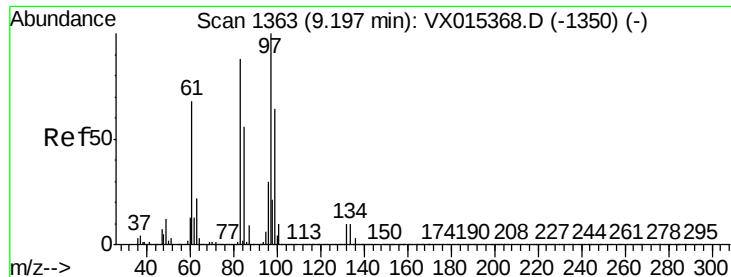
Tgt Ion: 98 Resp: 2061255

Ion Ratio Lower Upper

98 100

100 66.6 53.5 80.3





#55

1,1,2-Trichloroethane

Concen: 6.224 ug/l

RT: 9.32 min Scan# 1383

Delta R.T. 0.12 min

Lab File: VX015572.D

Acq: 08 Apr 2020 16:24

Instrument :

MSVOA_X

ClientSampleId :

STOO8MW158-200407

Tot Ion: 97 Resp: 71749

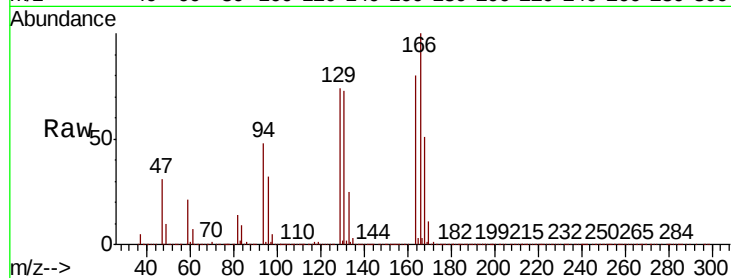
Ion Ratio Lower Upper

97 100

83 242.4 70.2 105.4#

85 35.9 44.7 67.1#

99 14.2 51.1 76.7#

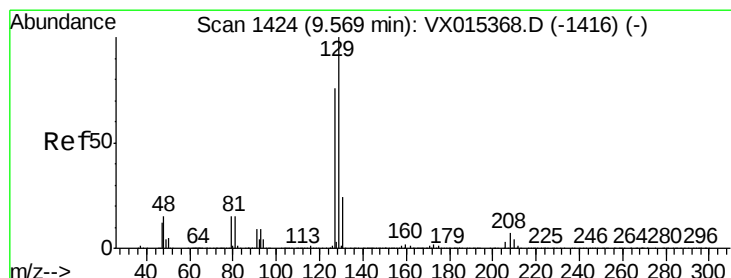
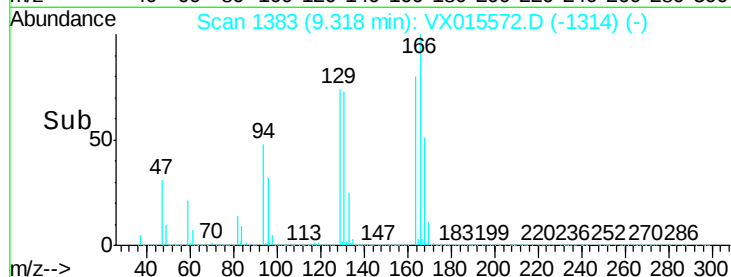
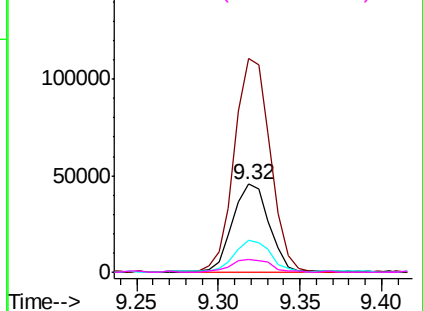


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0



#60

Dibromochloromethane

Concen: 519.790 ug/l

RT: 9.32 min Scan# 1384

Delta R.T. -0.24 min

Lab File: VX015572.D

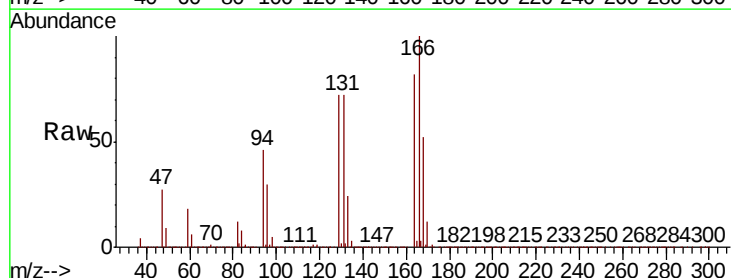
Acq: 08 Apr 2020 16:24

Tgt Ion:129 Resp: 7199998

Ion Ratio Lower Upper

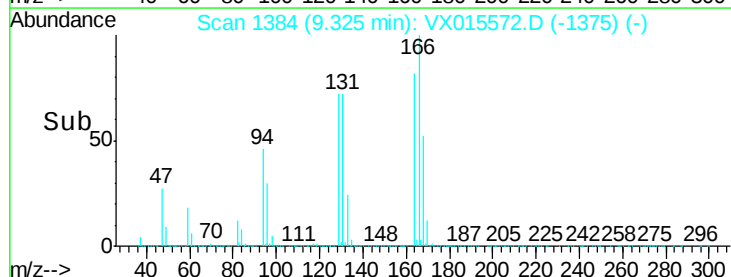
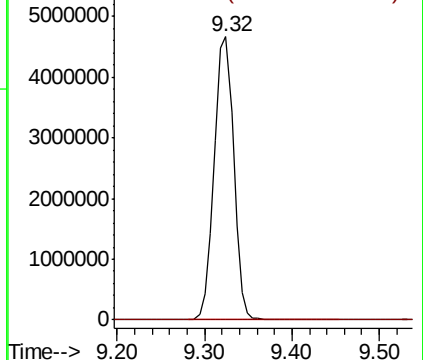
129 100

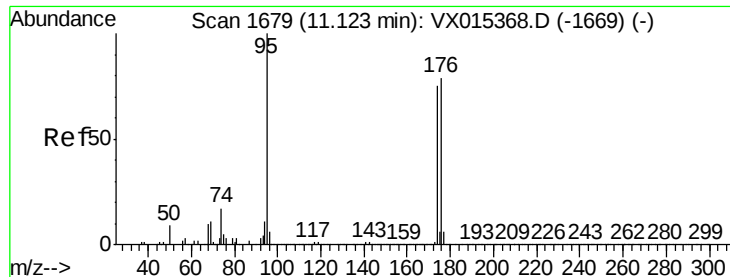
127 0.0 38.2 114.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

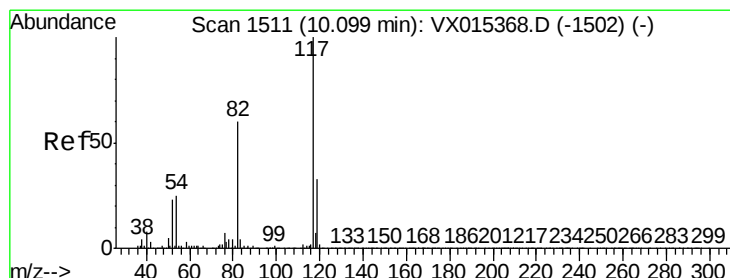
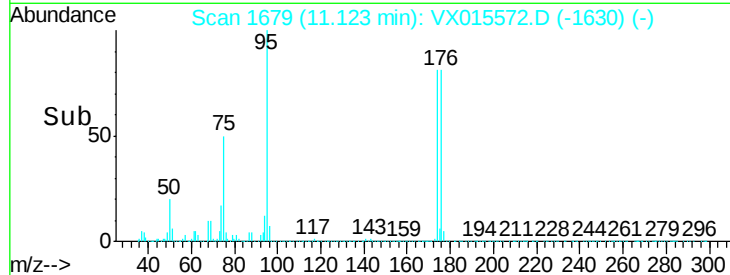
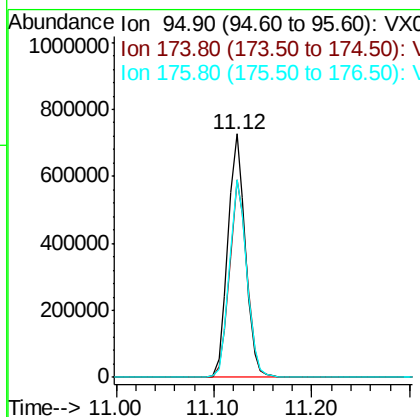
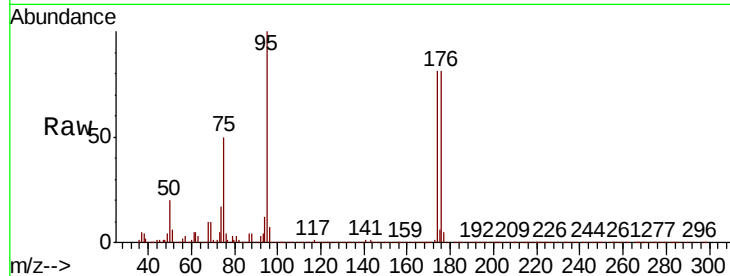




#62
4-Bromofluorobenzene
Concen: 55.685 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VX015572.D
Acq: 08 Apr 2020 16:24

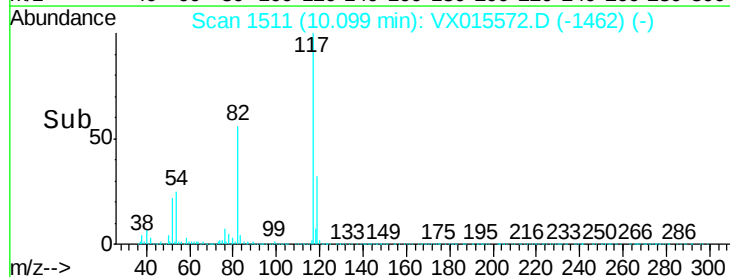
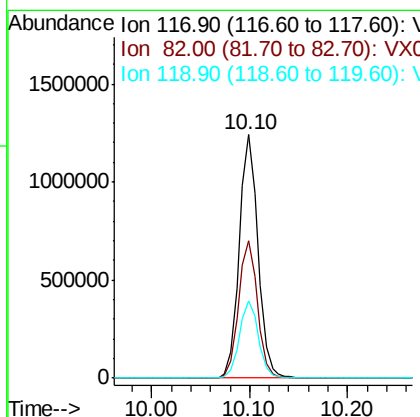
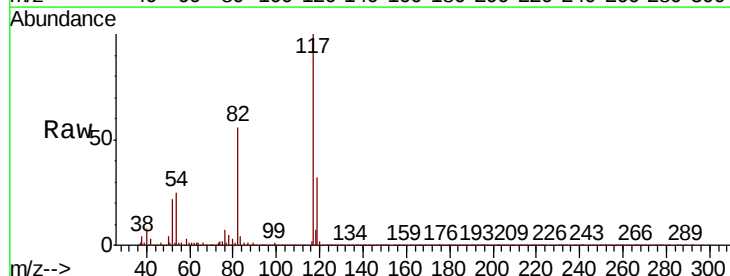
Instrument :
MSVOA_X
ClientSampleId :
STOO8MW158-200407

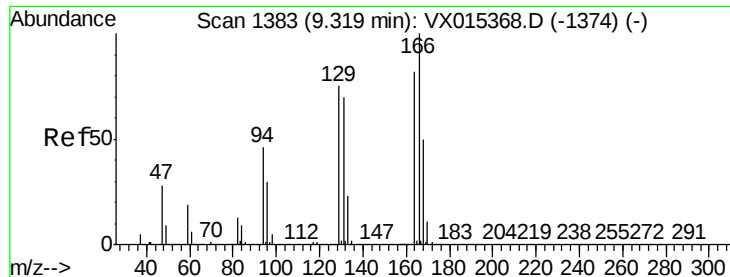
Tot Ion	95	Resp	900559
Ion Ratio	100		
Lower			
Upper			
174	81.1	0.0	158.6
176	81.4	0.0	159.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. -0.00 min
Lab File: VX015572.D
Acq: 08 Apr 2020 16:24

Tgt Ion	117	Resp	1647344
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower			
Upper			
82	56.2	47.8	71.8
119	31.9	26.8	40.2





#64

Tetrachloroethene

Concen: 639.474 ug/l

RT: 9.32 min Scan# 1384

Delta R.T. 0.01 min

Lab File: VX015572.D

Acq: 08 Apr 2020 16:24

Instrument :

MSVOA_X

ClientSampleId :

STOO8MW158-200407

Tot Ion:164 Resp: 7949998

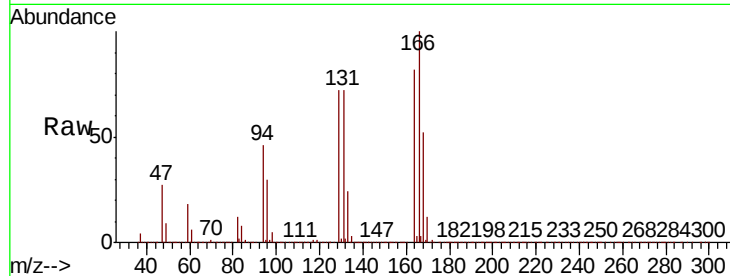
Ion Ratio Lower Upper

164 100

166 122.3 97.8 146.6

129 87.7 73.0 109.4

131 87.7 68.6 103.0



Abundance Ion 163.80 (163.50 to 164.50): V

1e+07 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

8000000

6000000

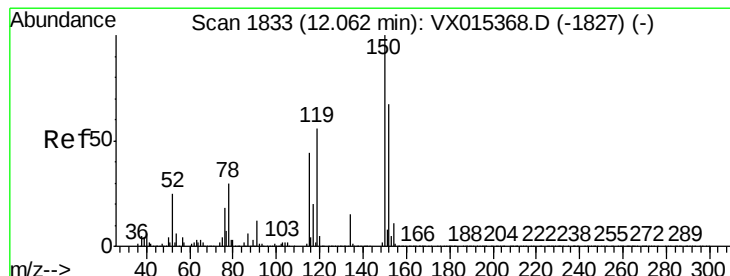
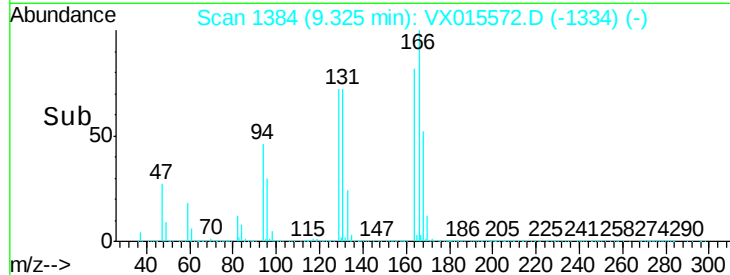
4000000

2000000

0

9.20 9.30 9.40 9.50

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VX015572.D

Acq: 08 Apr 2020 16:24

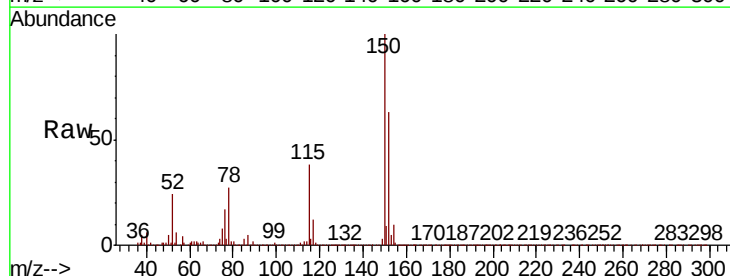
Tgt Ion:152 Resp: 919830

Ion Ratio Lower Upper

152 100

115 57.4 39.0 116.9

150 157.6 0.0 340.8



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

1500000

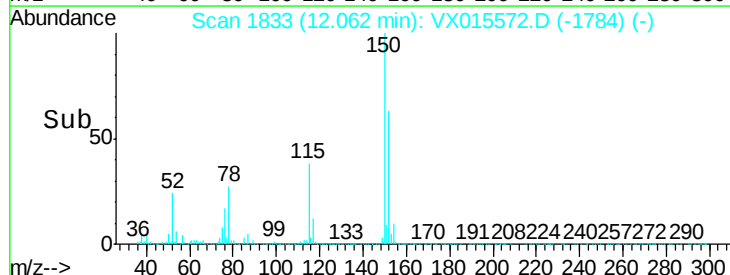
1000000

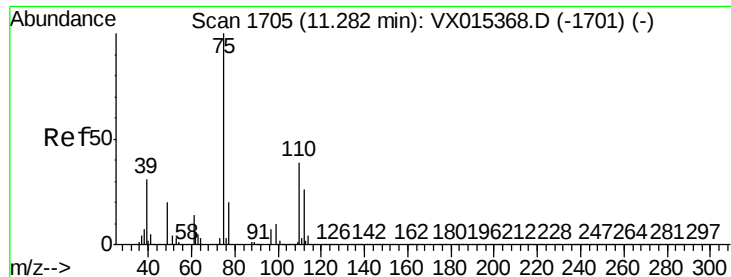
500000

0

12.00 12.10 12.20

Time-->





#76

1,2,3-Trichloropropane

Concen: 24.558 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015572.D

Acq: 08 Apr 2020 16:24

Instrument :

MSVOA_X

ClientSampleId :

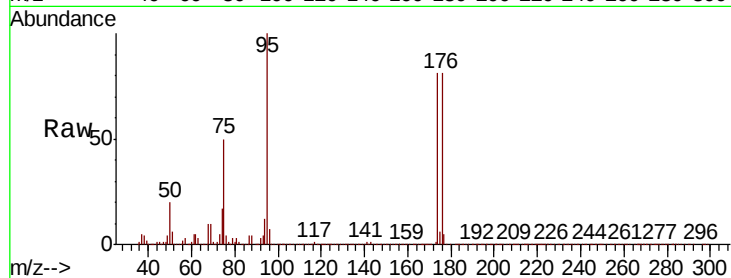
STOO8MW158-200407

Tot Ion: 75 Resp: 464524

Ion Ratio Lower Upper

75 100

77 1.0 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

400000

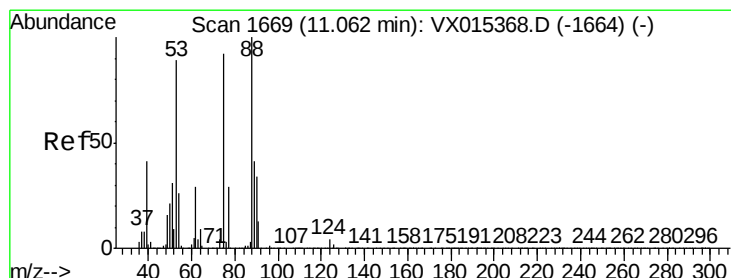
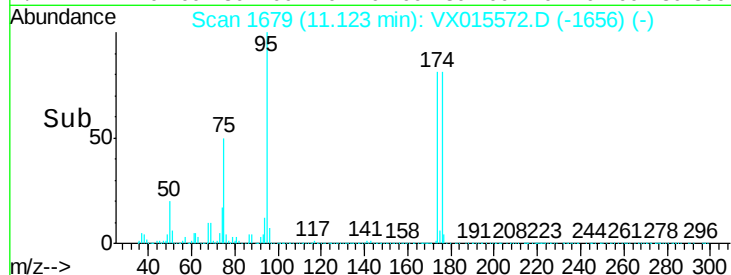
300000

200000

100000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 58.925 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015572.D

Acq: 08 Apr 2020 16:24

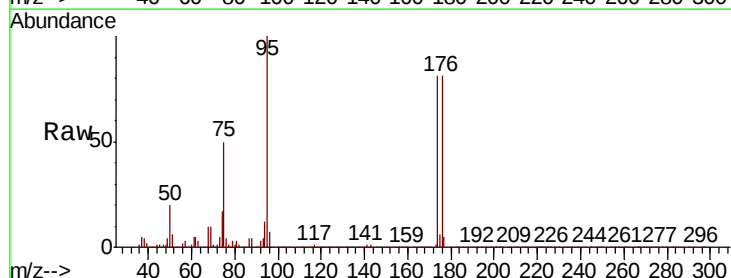
Tgt Ion: 75 Resp: 464524

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

89 0.0 36.1 54.1#



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

500000

400000

300000

200000

100000

0

Time-->

