

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041520\
 Data File : VX015693.D
 Acq On : 15 Apr 2020 19:01
 Operator : JC/SP
 Sample : L2233-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS037MW309-200408

Quant Time: Apr 16 05:58:07 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	5.63	168	1057556	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1611509	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1579694	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	857063	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.04	65	636069	42.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.28%	
35) Dibromofluoromethane	5.47	113	493259	47.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.76%	
50) Toluene-d8	8.70	98	1942546	51.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.44%	
62) 4-Bromofluorobenzene	11.12	95	814588	52.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.70%	

Target Compounds

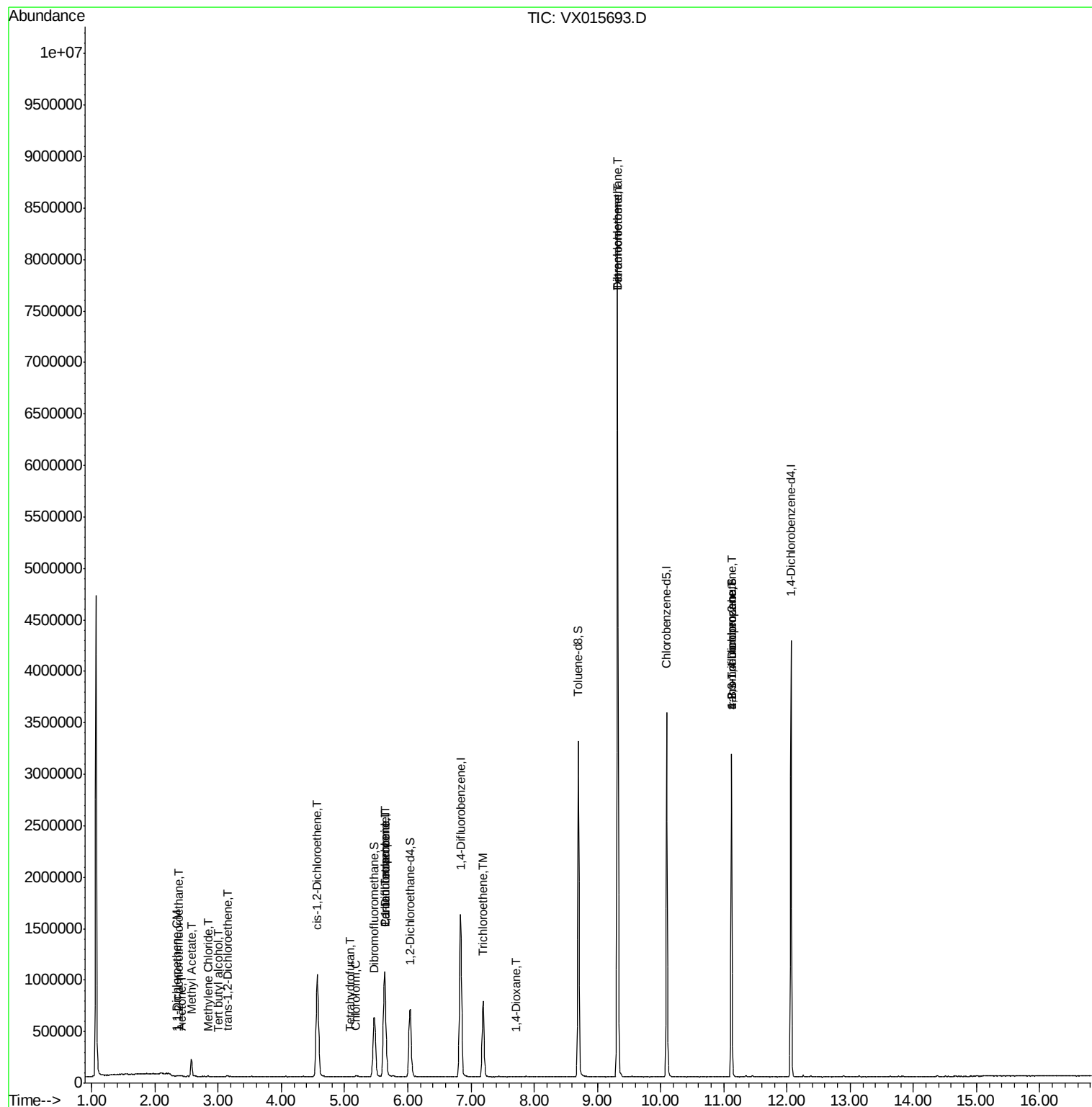
						Qvalue
5) Bromomethane	1.65	94	1303	Below Cal		86
9) 1,1,2-Trichlorotrifluoroet	2.38	101	2208	0.232	ug/l #	53
11) Tert butyl alcohol	3.00	59	2854	0.799	ug/l #	65
12) 1,1-Dichloroethene	2.35	96	2739	0.274	ug/l #	32
16) Acetone	2.42	43	11326	1.767	ug/l	97
18) Methyl Acetate	2.58	43	41055	2.510	ug/l #	60
20) Methylene Chloride	2.84	84	3491	0.292	ug/l #	78
21) trans-1,2-Dichloroethene	3.15	96	6168	0.557	ug/l #	88
27) cis-1,2-Dichloroethene	4.57	96	620986	48.439	ug/l	89
29) Tetrahydrofuran	5.09	42	2175	0.328	ug/l #	61
30) Chloroform	5.18	83	12780	0.610	ug/l	95
36) 1,1-Dichloropropene	5.64	75	69565	4.685	ug/l #	53
38) Carbon Tetrachloride	5.63	117	93956	5.842	ug/l #	15
44) Trichloroethene	7.19	130	291164	24.546	ug/l	99
49) 1,4-Dioxane	7.70	88	119	0.391	ug/l #	1
60) Dibromochloromethane	9.32	129	1502905	113.842	ug/l #	11
64) Tetrachloroethene	9.32	164	1694043	142.099	ug/l	98
76) 1,2,3-Trichloropropane	11.12	75	402621	22.844	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	402621	54.813	ug/l #	10

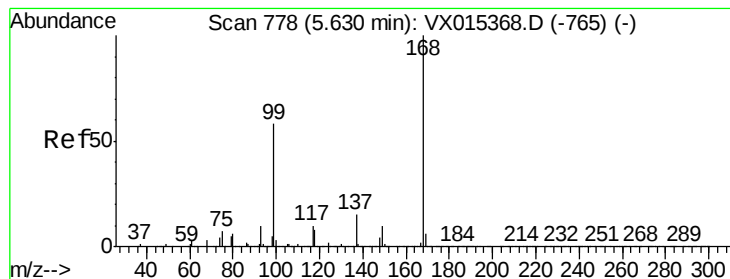
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.00 min

Lab File: VX015693.D

Acq: 15 Apr 2020 19:01

Instrument :

MSVOA_X

ClientSampleId :

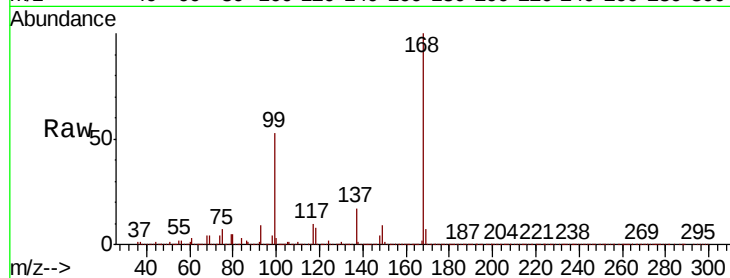
SS037MW309-200408

Tot Ion:168 Resp: 1057556

Ion Ratio Lower Upper

168 100

99 52.8 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

400000

300000

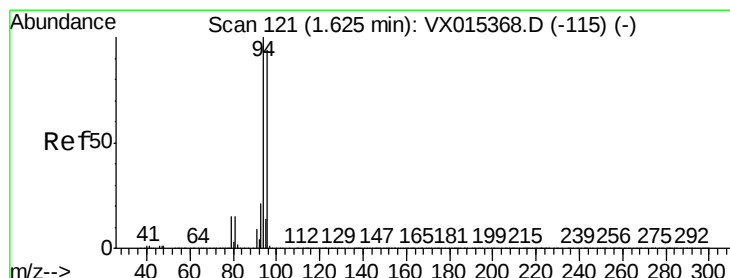
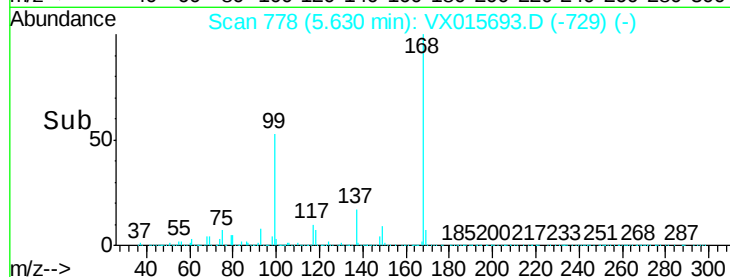
200000

100000

0

5.50 5.60 5.70 5.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX015693.D

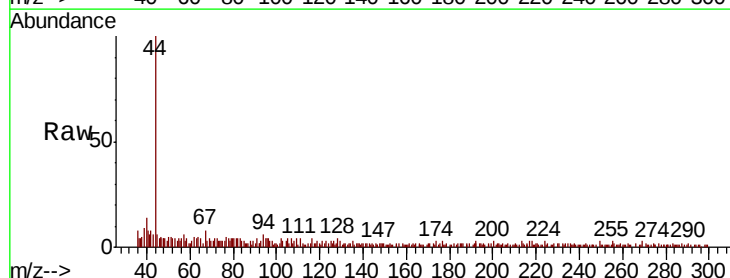
Acq: 15 Apr 2020 19:01

Tgt Ion: 94 Resp: 1303

Ion Ratio Lower Upper

94 100

96 79.9 74.8 112.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1000

800

600

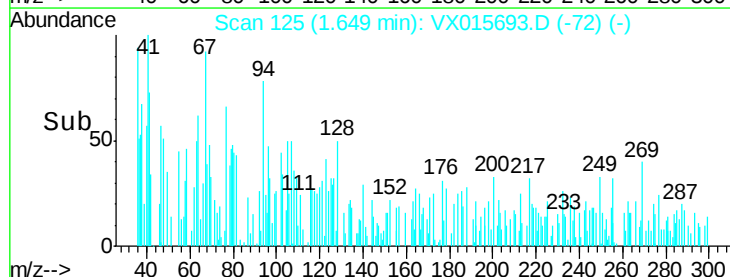
400

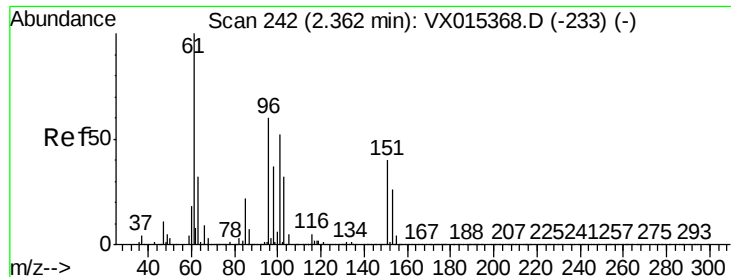
200

0

1.60 1.62 1.64 1.66

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.232 ug/l

RT: 2.38 min Scan# 245

Delta R.T. 0.02 min

Lab File: VX015693.D

Acq: 15 Apr 2020 19:01

Instrument :

MSVOA_X

ClientSampleId :

SS037MW309-200408

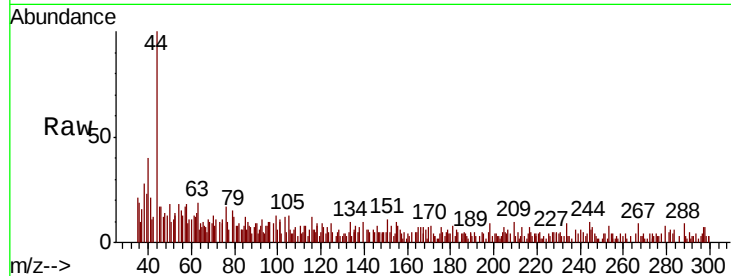
Tot Ion:101 Resp: 2208

Ion Ratio Lower Upper

101 100

85 37.3 35.0 52.4

151 21.3 64.1 96.1#

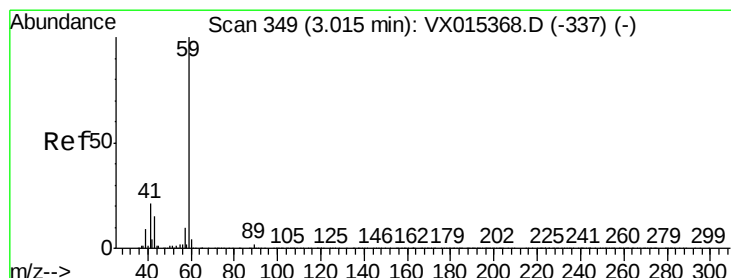
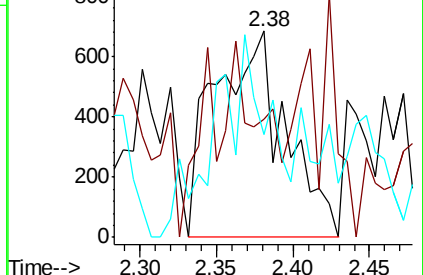
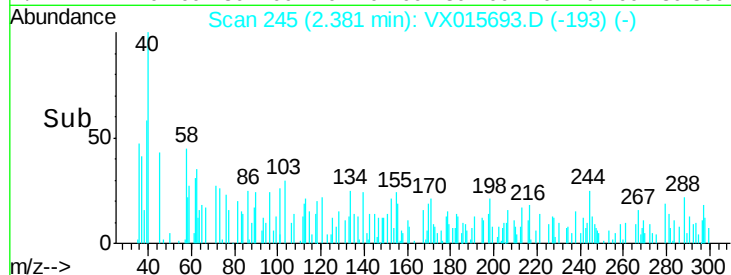


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

Time-->



#11

Tert butyl alcohol

Concen: 0.799 ug/l

RT: 3.00 min Scan# 346

Delta R.T. -0.02 min

Lab File: VX015693.D

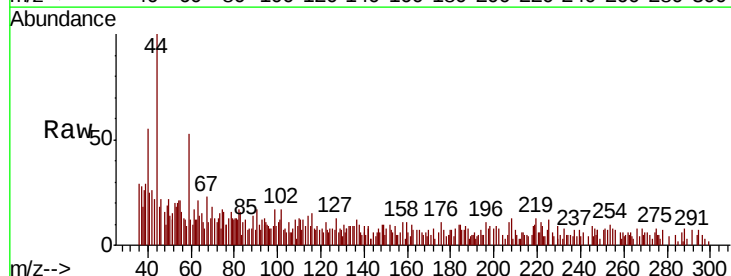
Acq: 15 Apr 2020 19:01

Tgt Ion: 59 Resp: 2854

Ion Ratio Lower Upper

59 100

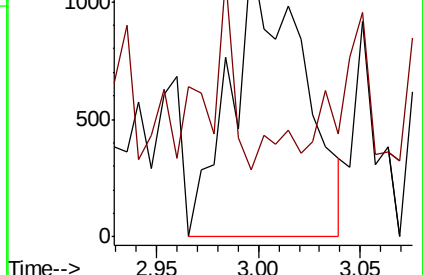
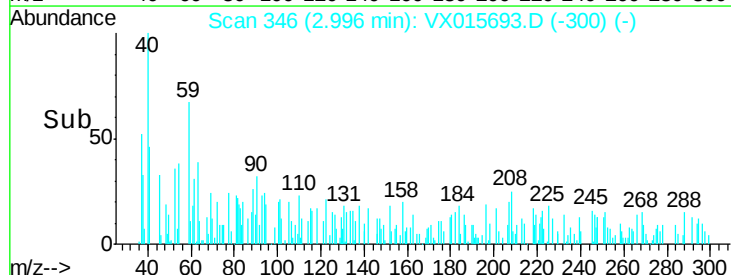
57 22.9 8.1 12.1#

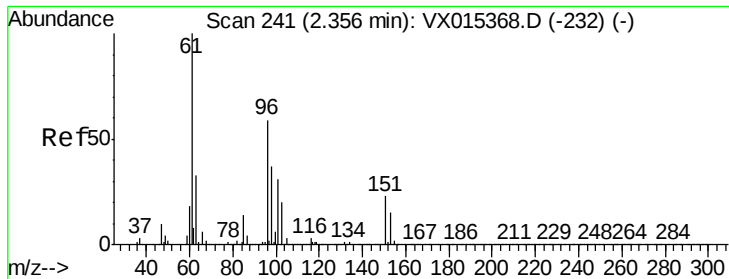


Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

Time-->





#12

1,1-Dichloroethene

Concen: 0.274 ug/l

RT: 2.35 min Scan# 240

Delta R.T. -0.01 min

Lab File: VX015693.D

Acq: 15 Apr 2020 19:01

Instrument :

MSVOA_X

ClientSampleId :

SS037MW309-200408

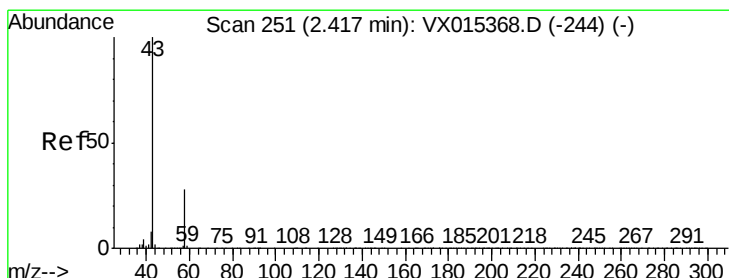
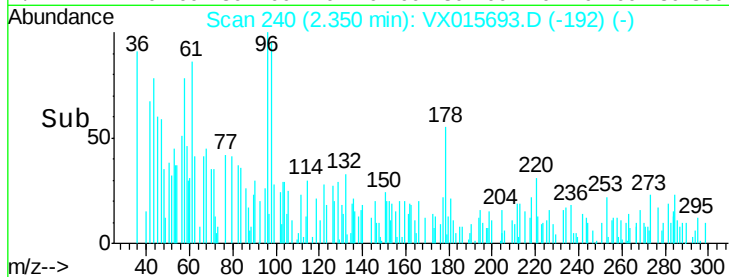
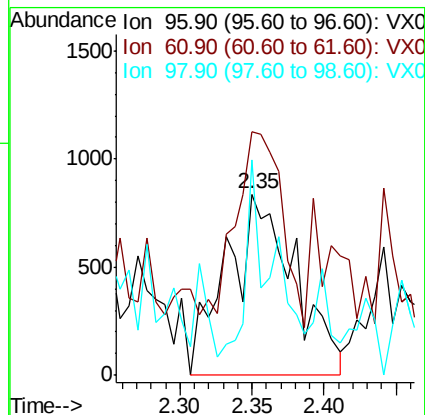
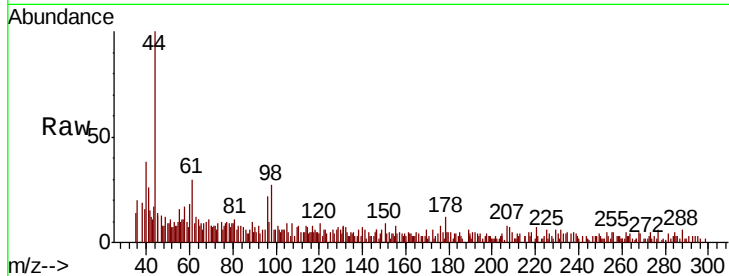
Tot Ion: 96 Resp: 2739

Ion Ratio Lower Upper

96 100

61 68.2 135.7 203.5#

98 103.3 50.6 75.8#



#16

Acetone

Concen: 1.767 ug/l

RT: 2.42 min Scan# 251

Delta R.T. -0.00 min

Lab File: VX015693.D

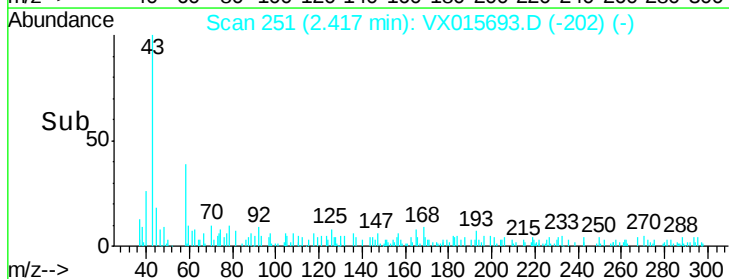
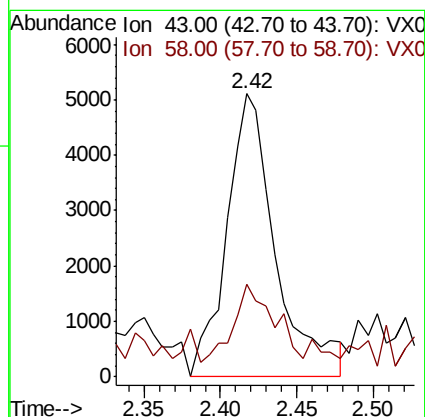
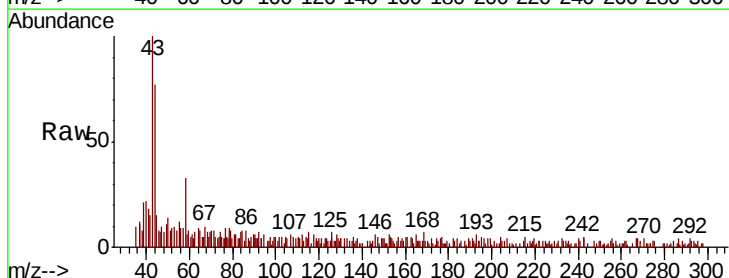
Acq: 15 Apr 2020 19:01

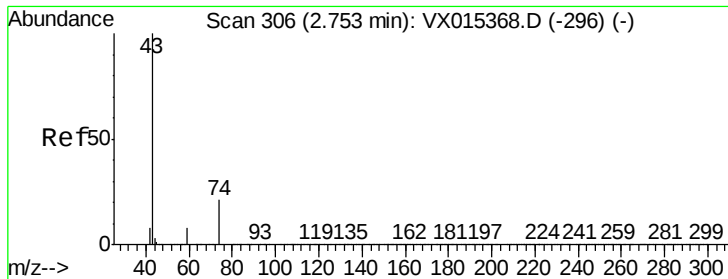
Tgt Ion: 43 Resp: 11326

Ion Ratio Lower Upper

43 100

58 26.1 22.1 33.1

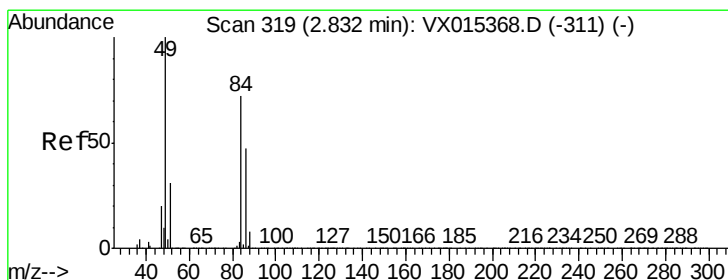
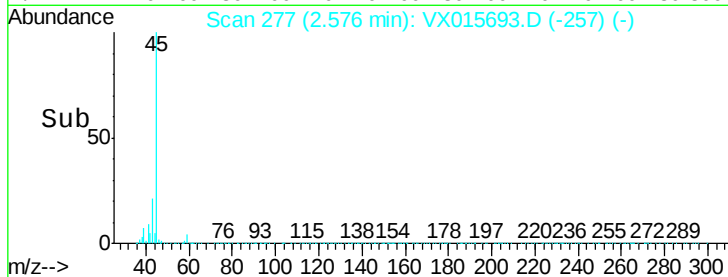
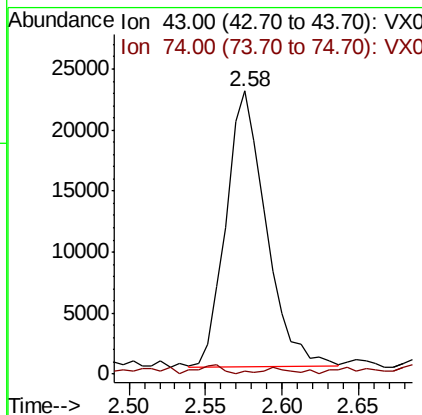
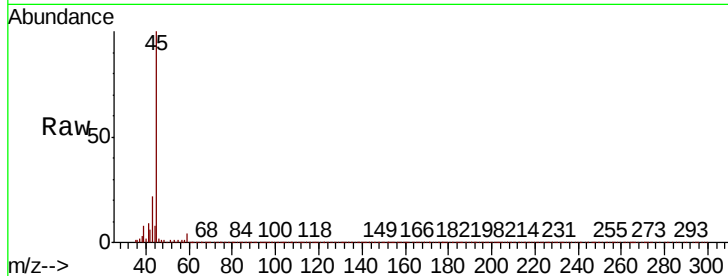




#18
Methyl Acetate
Concen: 2.510 ug/l
RT: 2.58 min Scan# 277
Delta R.T. -0.18 min
Lab File: VX015693.D
Acq: 15 Apr 2020 19:01

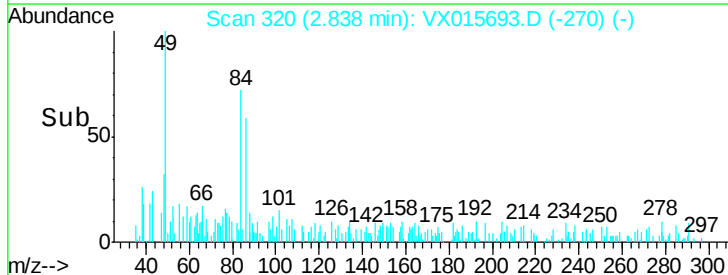
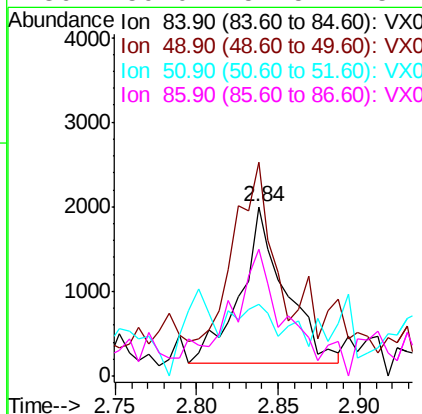
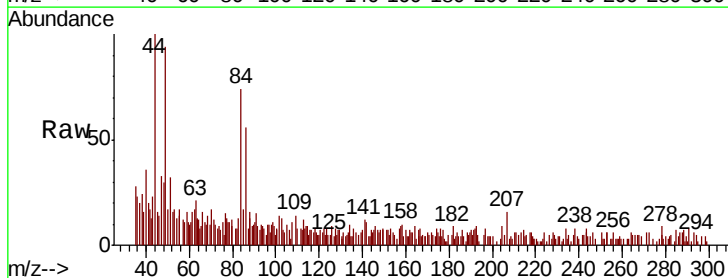
Instrument :
MSVOA_X
ClientSampleId :
SS037MW309-200408

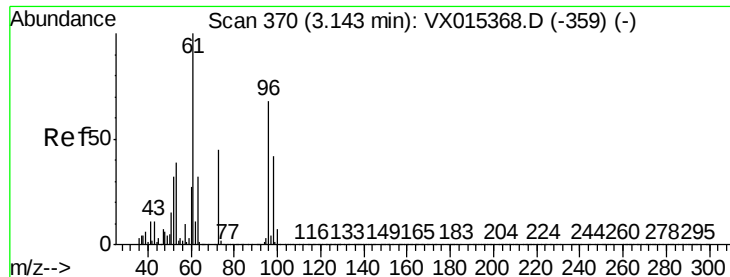
Tot Ion: 43 Resp: 41055
Ion Ratio Lower Upper
43 100
74 2.1 16.5 24.7#



#20
Methylene Chloride
Concen: 0.292 ug/l
RT: 2.84 min Scan# 320
Delta R.T. 0.01 min
Lab File: VX015693.D
Acq: 15 Apr 2020 19:01

Tgt Ion: 84 Resp: 3491
Ion Ratio Lower Upper
84 100
49 114.9 111.3 166.9
51 12.2 34.0 51.0#
86 59.0 52.5 78.7





#21

trans-1,2-Dichloroethene

Concen: 0.557 ug/l

RT: 3.15 min Scan# 371

Delta R.T. 0.01 min

Lab File: VX015693.D

Acq: 15 Apr 2020 19:01

Instrument :

MSVOA_X

ClientSampleId :

SS037MW309-200408

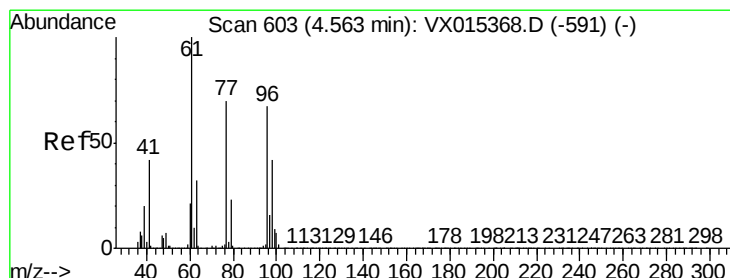
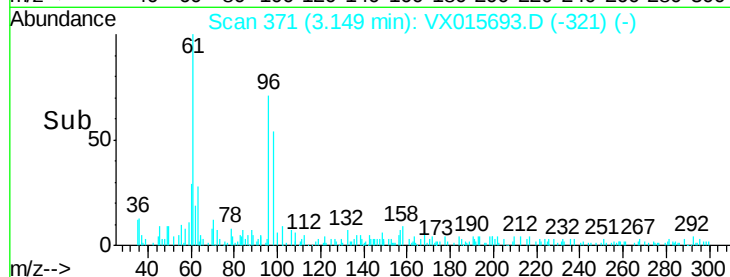
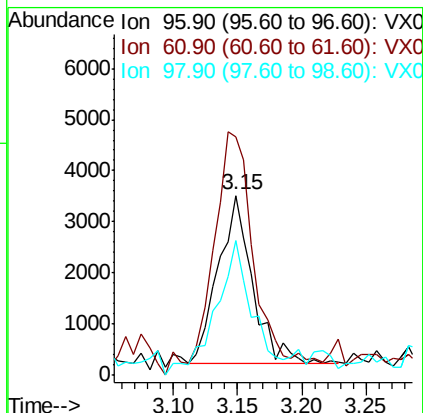
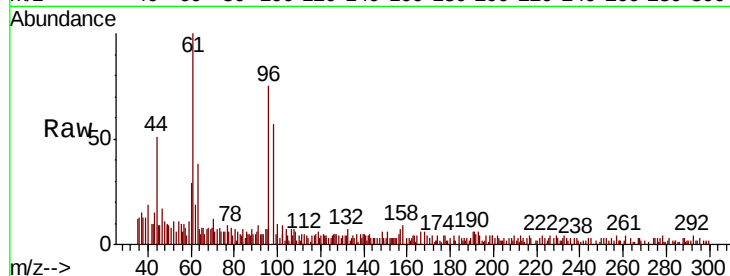
Tot Ion: 96 Resp: 6168

Ion Ratio Lower Upper

96 100

61 135.8 116.9 175.3

98 77.0 48.6 73.0#



#27

cis-1,2-Dichloroethene

Concen: 48.439 ug/l

RT: 4.57 min Scan# 604

Delta R.T. 0.01 min

Lab File: VX015693.D

Acq: 15 Apr 2020 19:01

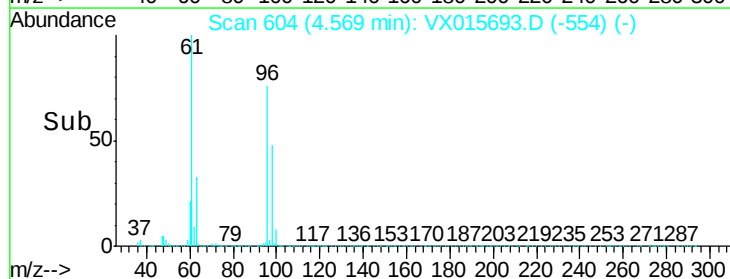
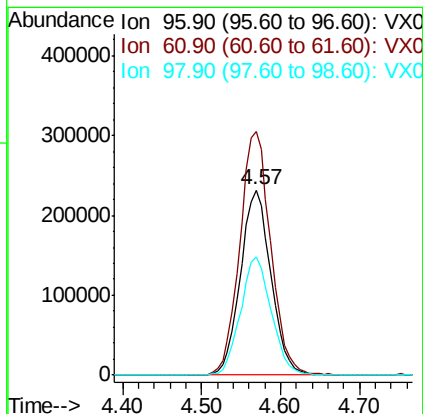
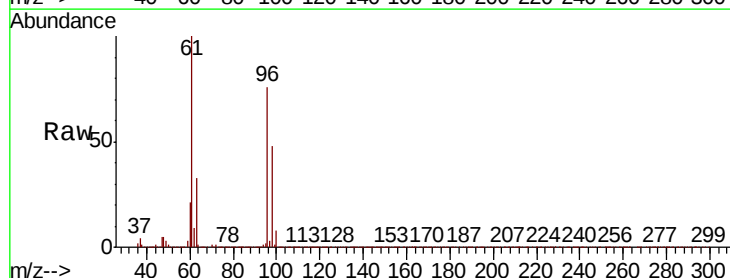
Tgt Ion: 96 Resp: 620986

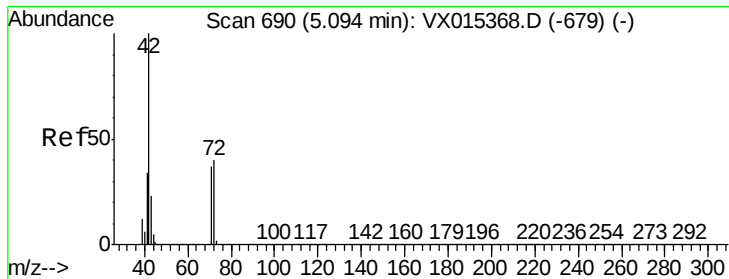
Ion Ratio Lower Upper

96 100

61 134.1 0.0 308.4

98 64.5 0.0 129.2





#29

Tetrahydrofuran

Concen: 0.328 ug/l

RT: 5.09 min Scan# 689

Delta R.T. -0.01 min

Lab File: VX015693.D

Acq: 15 Apr 2020 19:01

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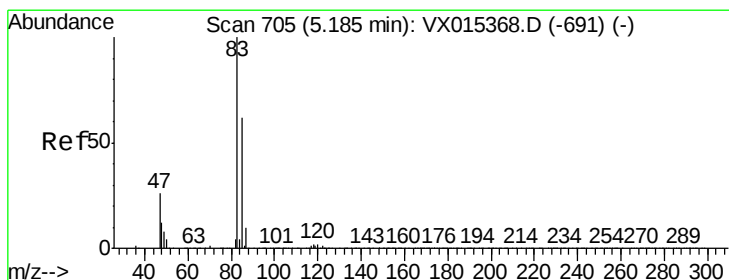
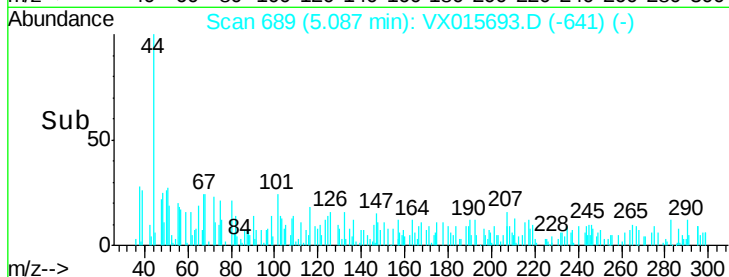
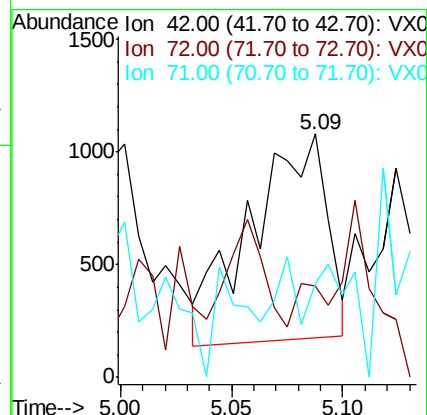
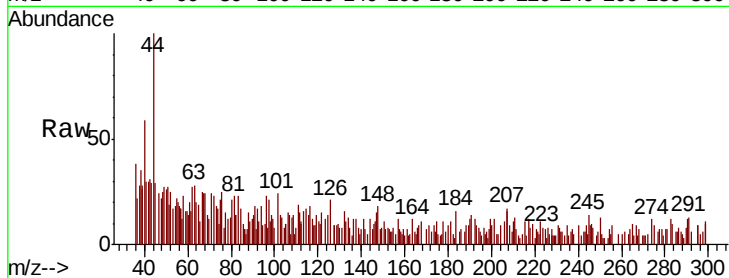
Tot Ion: 42 Resp: 2175

Ion Ratio Lower Upper

42 100

72 0.0 31.7 47.5#

71 29.4 29.6 44.4#



#30

Chloroform

Concen: 0.610 ug/l

RT: 5.18 min Scan# 705

Delta R.T. -0.00 min

Lab File: VX015693.D

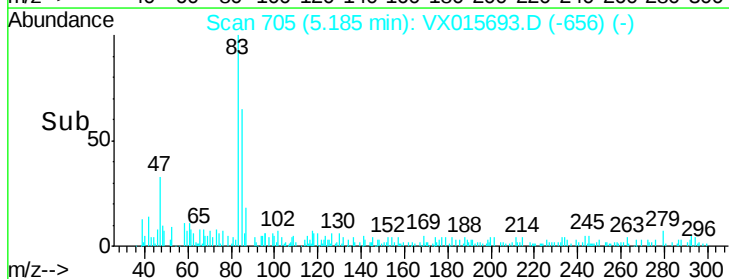
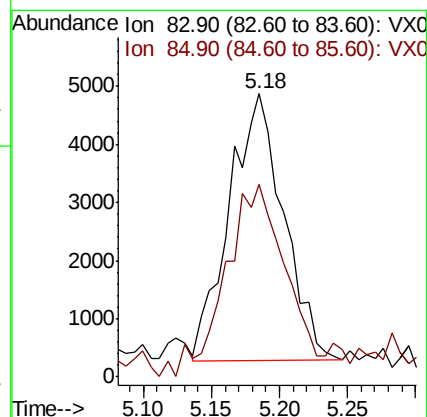
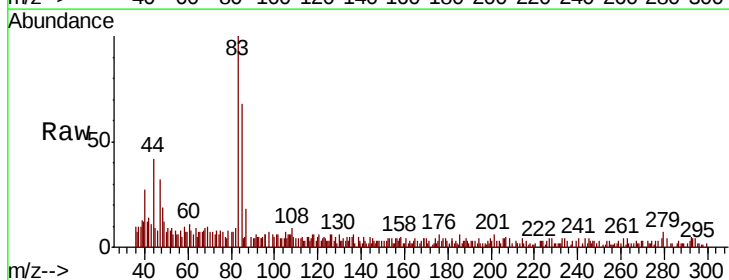
Acq: 15 Apr 2020 19:01

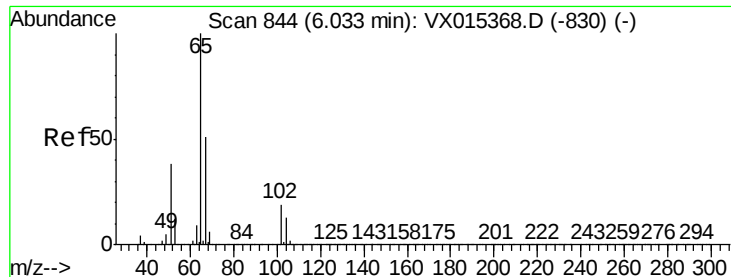
Tgt Ion: 83 Resp: 12780

Ion Ratio Lower Upper

83 100

85 65.5 49.5 74.3





#33

1,2-Dichloroethane-d4

Concen: 42.644 ug/l

RT: 6.04 min Scan# 845

Delta R.T. 0.01 min

Lab File: VX015693.D

Acq: 15 Apr 2020 19:01

Instrument :

MSVOA_X

ClientSampleId :

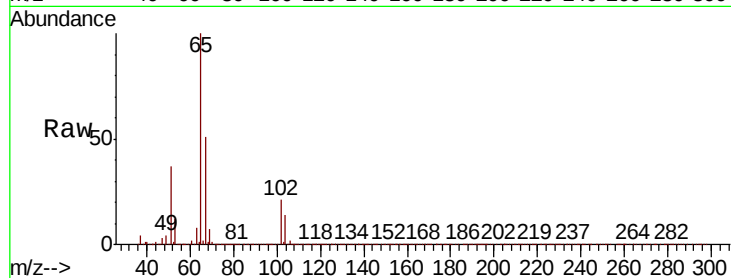
SS037MW309-200408

Tot Ion: 65 Resp: 636069

Ion Ratio Lower Upper

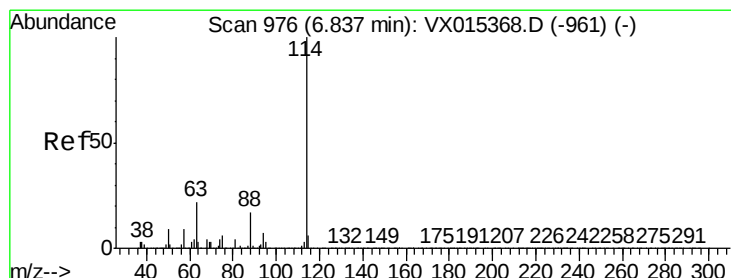
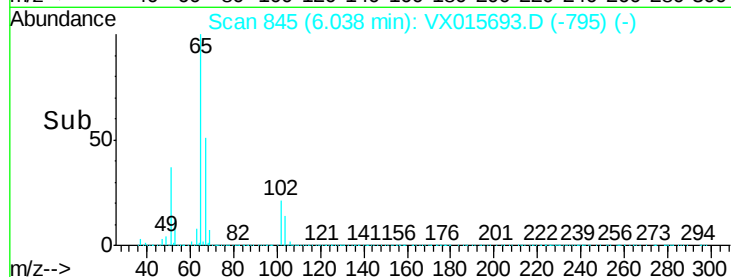
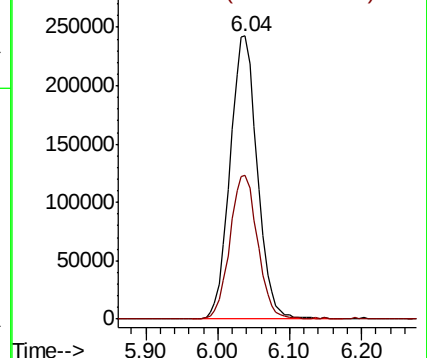
65 100

67 51.4 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 976

Delta R.T. -0.00 min

Lab File: VX015693.D

Acq: 15 Apr 2020 19:01

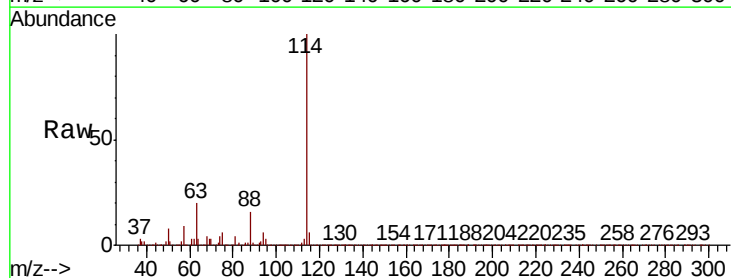
Tgt Ion: 114 Resp: 1611509

Ion Ratio Lower Upper

114 100

63 20.1 0.0 44.2

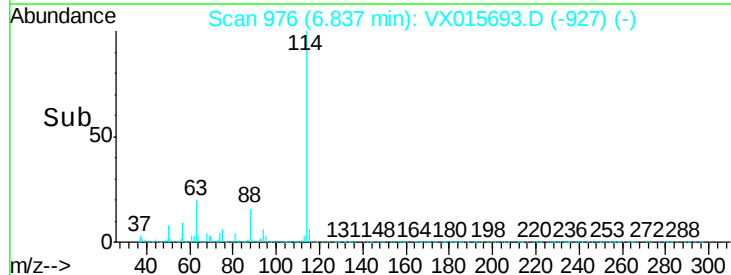
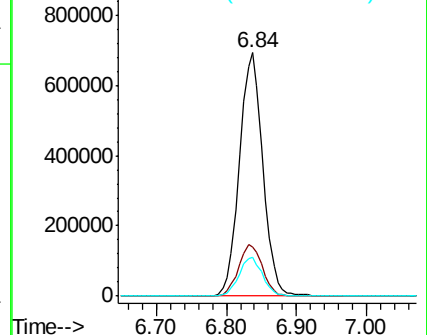
88 15.9 0.0 33.8

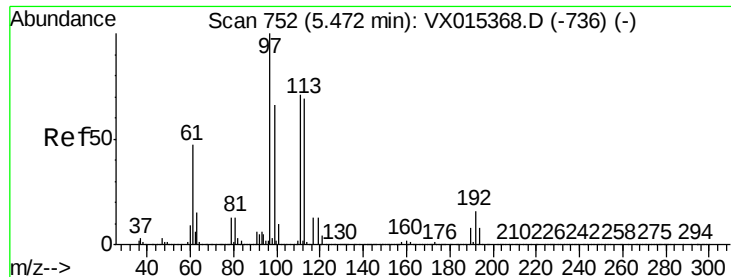


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

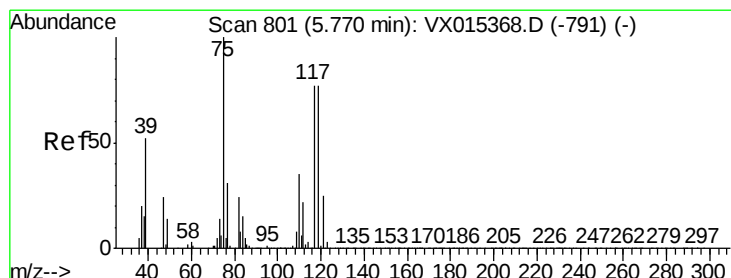
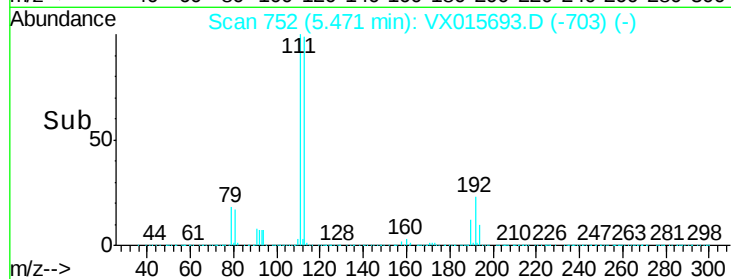
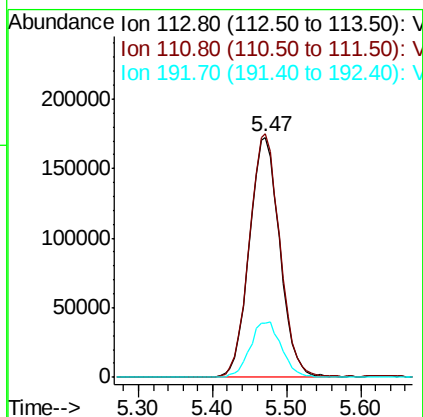
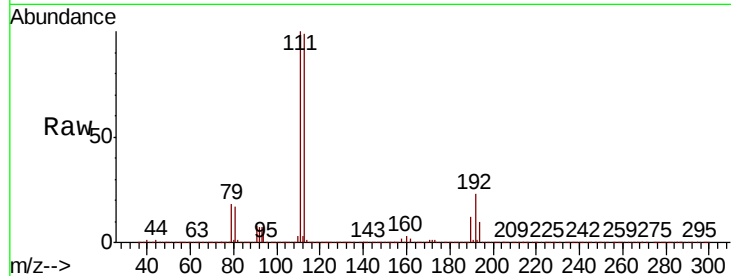




#35
 Dibromofluoromethane
 Concen: 47.884 ug/l
 RT: 5.47 min Scan# 752
 Delta R.T. -0.00 min
 Lab File: VX015693.D
 Acq: 15 Apr 2020 19:01

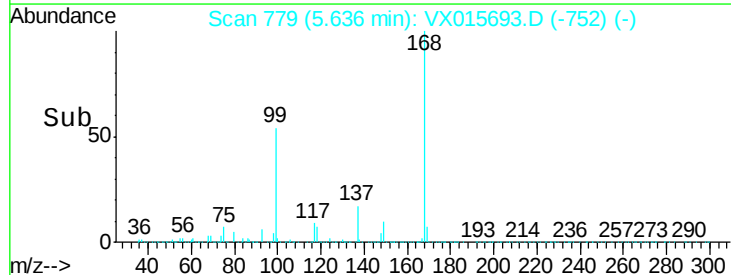
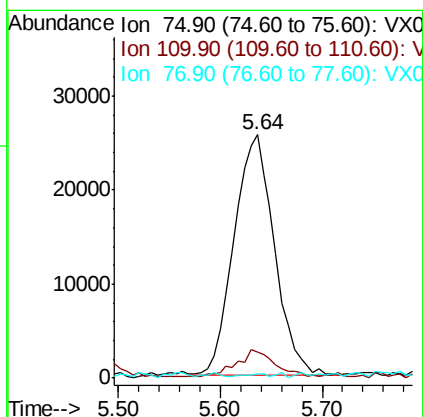
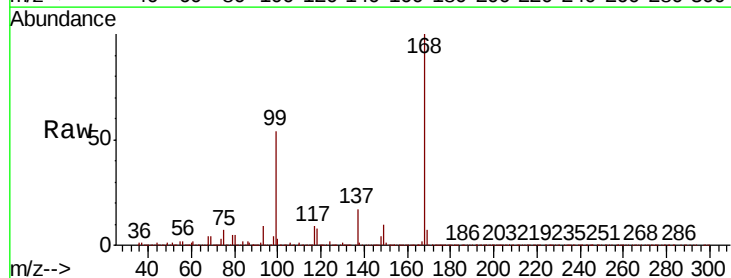
Instrument :
 MSVOA_X
 ClientSampleId :
 SS037MW309-200408

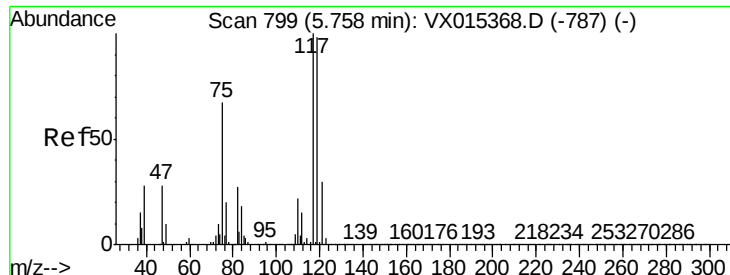
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.5	122.3
192	23.8	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 4.685 ug/l
 RT: 5.64 min Scan# 779
 Delta R.T. -0.13 min
 Lab File: VX015693.D
 Acq: 15 Apr 2020 19:01

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.8	17.1	51.3#
77	0.6	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 5.842 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.13 min

Lab File: VX015693.D

Acq: 15 Apr 2020 19:01

Instrument :

MSVOA_X

ClientSampleId :

SS037MW309-200408

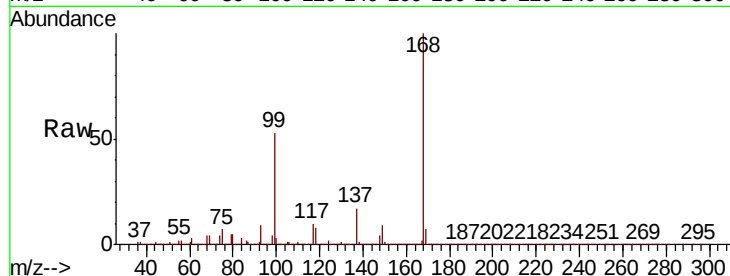
Tot Ion:117 Resp: 93956

Ion Ratio Lower Upper

117 100

119 4.4 78.0 117.0#

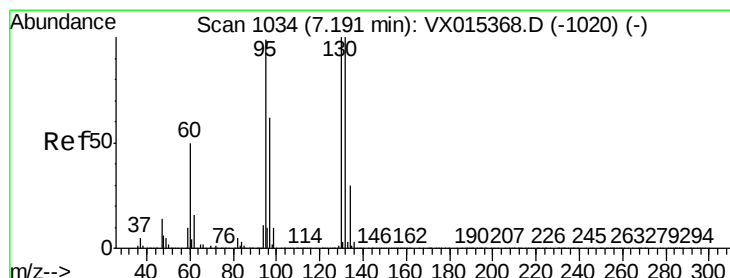
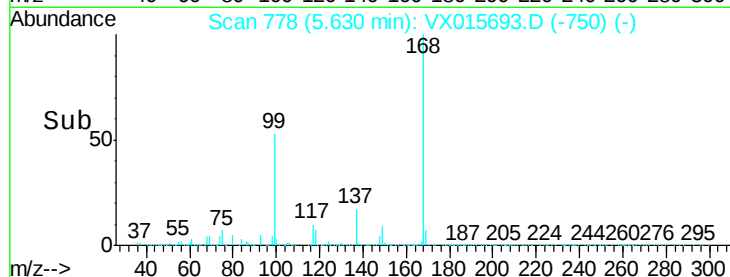
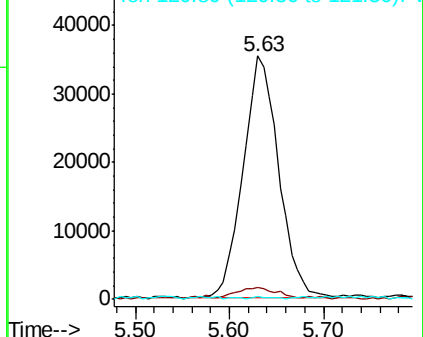
121 0.5 23.8 35.8#



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



#44

Trichloroethene

Concen: 24.546 ug/l

RT: 7.19 min Scan# 1034

Delta R.T. -0.00 min

Lab File: VX015693.D

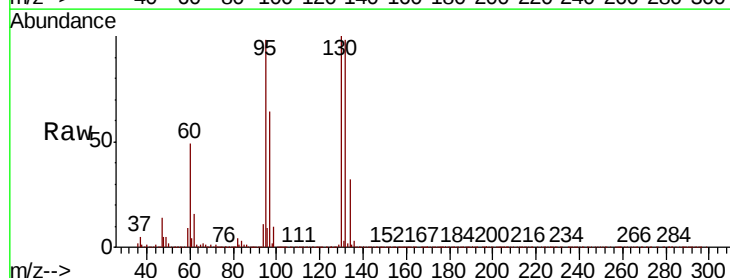
Acq: 15 Apr 2020 19:01

Tgt Ion:130 Resp: 291164

Ion Ratio Lower Upper

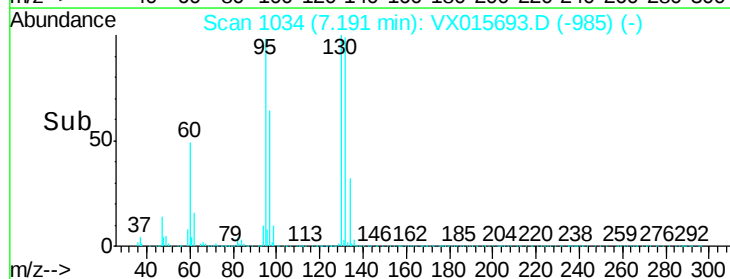
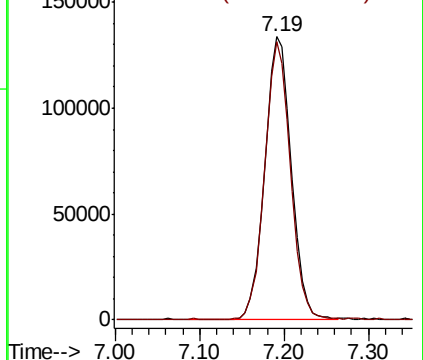
130 100

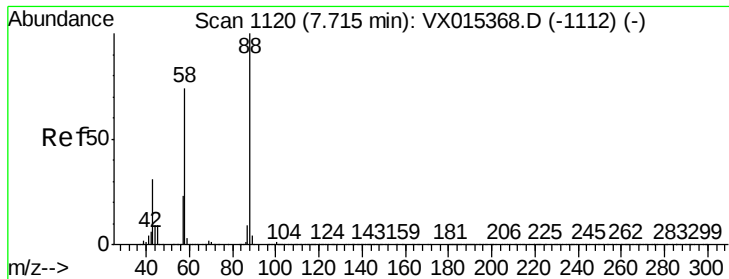
95 98.2 0.0 199.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 0.391 ug/l

RT: 7.70 min Scan# 1118

Delta R.T. -0.01 min

Lab File: VX015693.D

Acq: 15 Apr 2020 19:01

Instrument :

MSVOA_X

ClientSampleId :

SS037MW309-200408

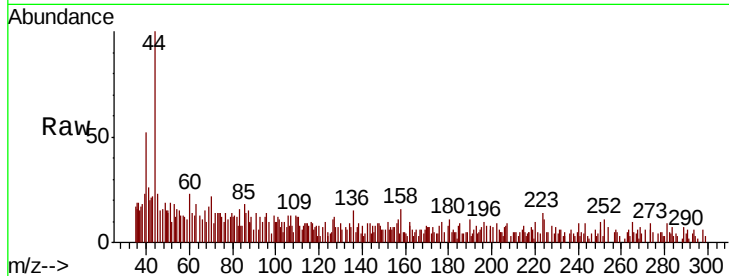
Tot Ion: 88 Resp: 119

Ion Ratio Lower Upper

88 100

43 452.1 30.1 45.1#

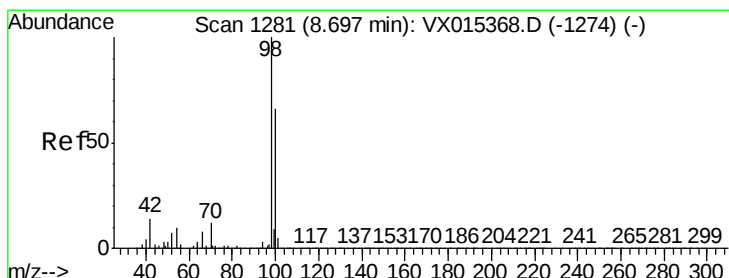
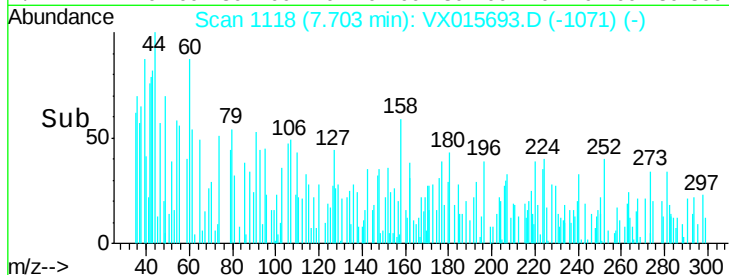
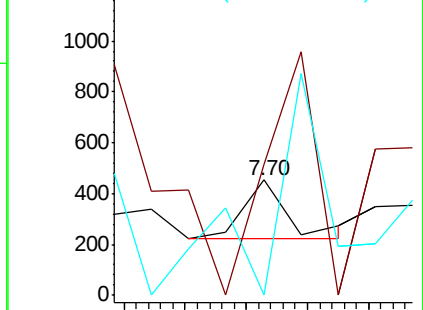
58 396.6 60.6 90.8#



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: 51.219 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VX015693.D

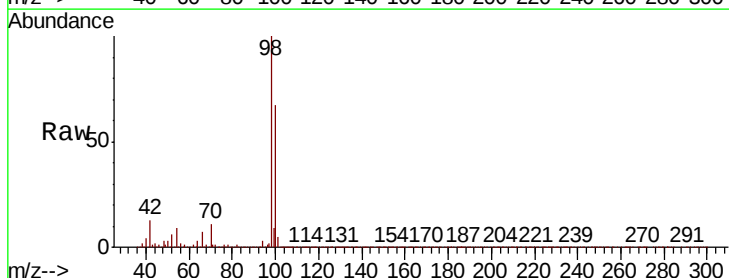
Acq: 15 Apr 2020 19:01

Tgt Ion: 98 Resp: 1942546

Ion Ratio Lower Upper

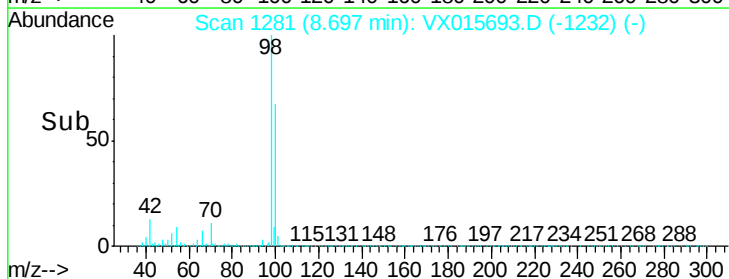
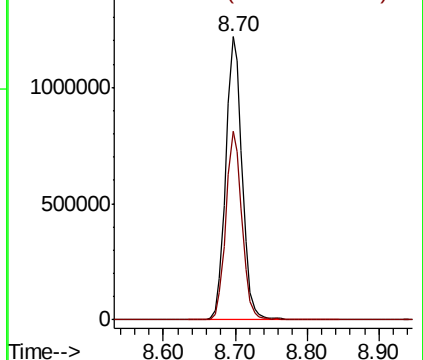
98 100

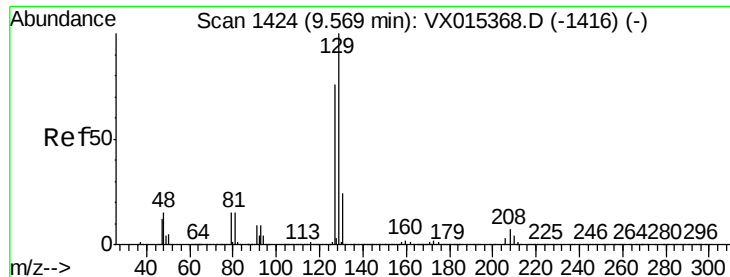
100 65.7 53.5 80.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 113.842 ug/l

RT: 9.32 min Scan# 1383

Delta R.T. -0.25 min

Lab File: VX015693.D

Acq: 15 Apr 2020 19:01

Instrument :

MSVOA_X

ClientSampleId :

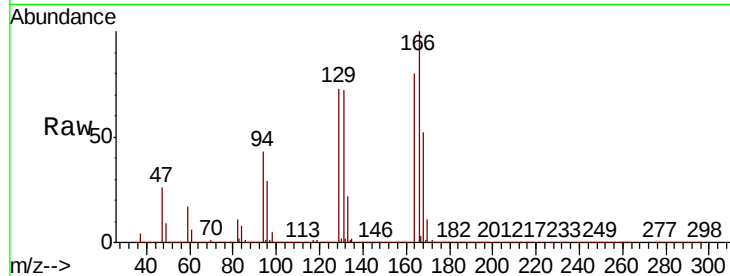
SS037MW309-200408

Tot Ion:129 Resp: 1502905

Ion Ratio Lower Upper

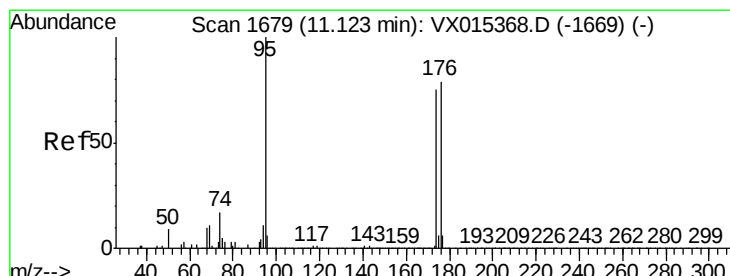
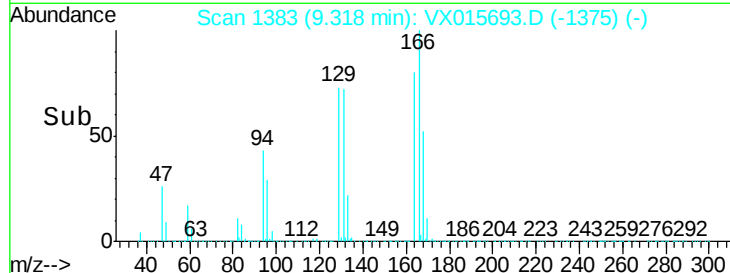
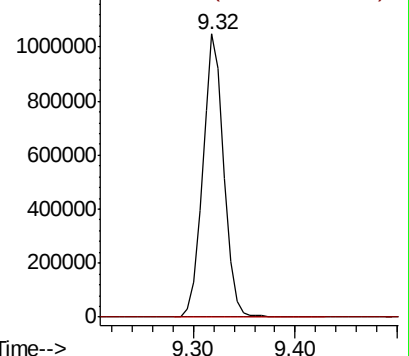
129 100

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: 52.850 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VX015693.D

Acq: 15 Apr 2020 19:01

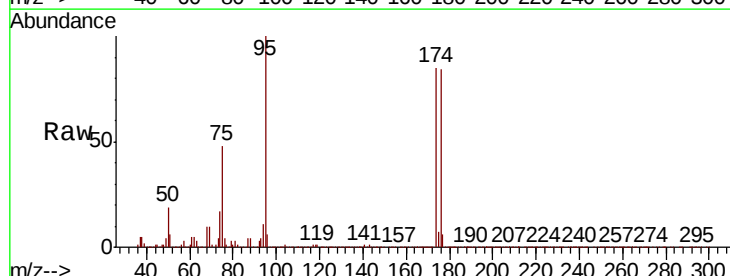
Tgt Ion: 95 Resp: 814588

Ion Ratio Lower Upper

95 100

174 85.7 0.0 158.6

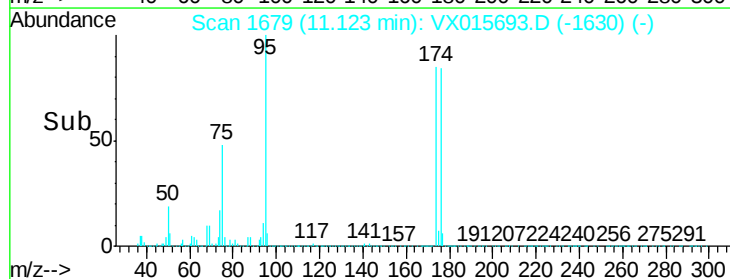
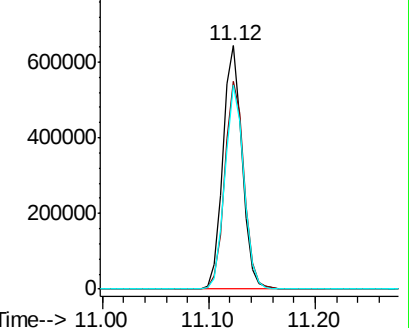
176 83.0 0.0 159.0

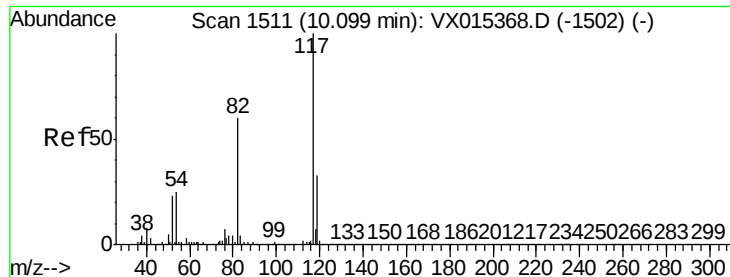


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

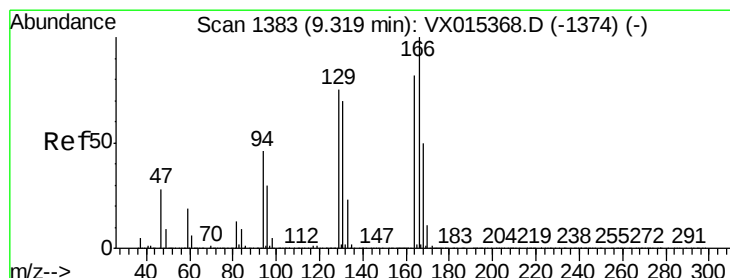
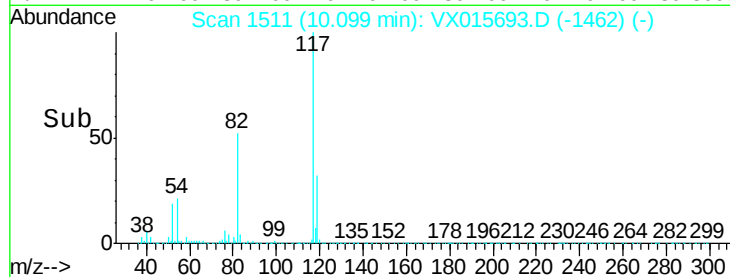
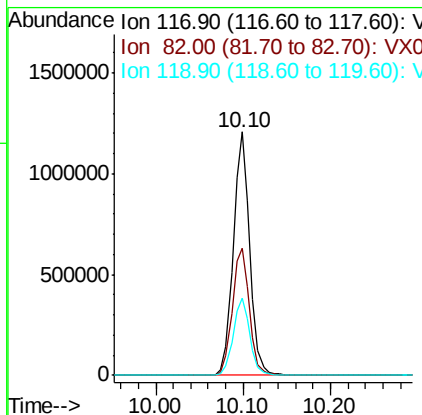
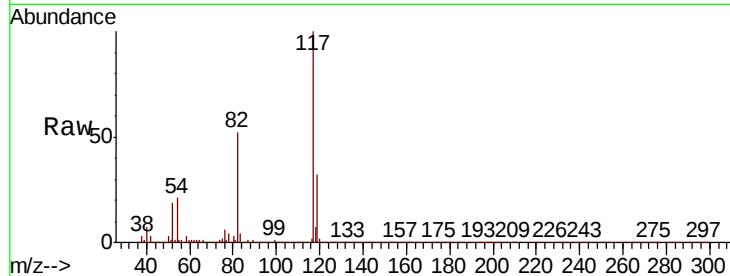




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. -0.00 min
Lab File: VX015693.D
Acq: 15 Apr 2020 19:01

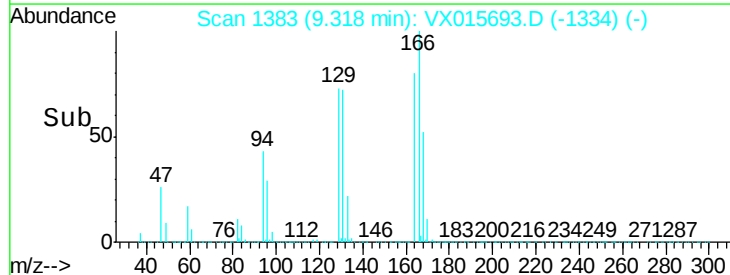
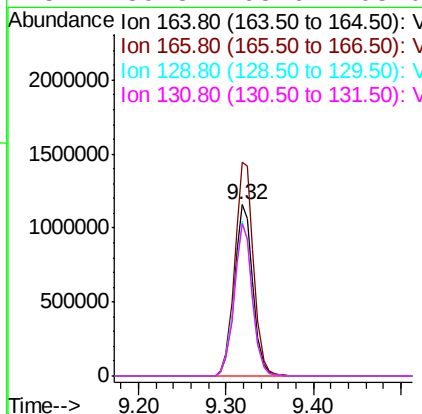
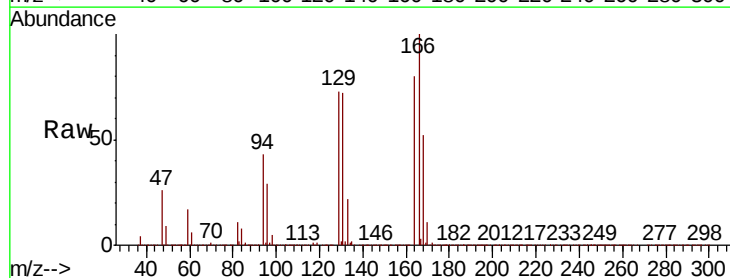
Instrument :
MSVOA_X
ClientSampleId :
SS037MW309-200408

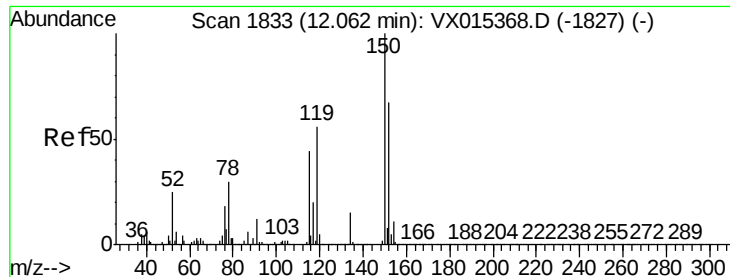
Tot Ion:117 Resp: 1579694
Ion Ratio Lower Upper
117 100
82 52.2 47.8 71.8
119 31.9 26.8 40.2



#64
Tetrachloroethene
Concen: 142.099 ug/l
RT: 9.32 min Scan# 1383
Delta R.T. -0.00 min
Lab File: VX015693.D
Acq: 15 Apr 2020 19:01

Tgt Ion:164 Resp: 1694043
Ion Ratio Lower Upper
164 100
166 124.8 97.8 146.6
129 90.6 73.0 109.4
131 89.3 68.6 103.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VX015693.D

Acq: 15 Apr 2020 19:01

Instrument :

MSVOA_X

ClientSampleId :

SS037MW309-200408

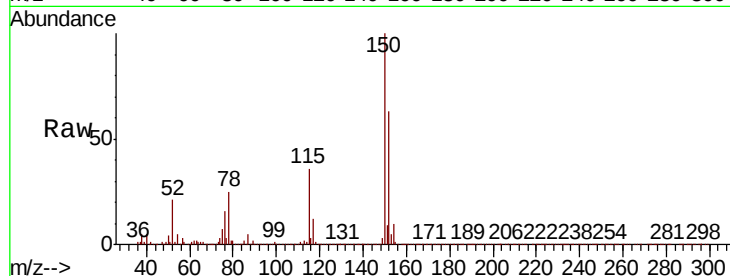
Tot Ion:152 Resp: 857063

Ion Ratio Lower Upper

152 100

115 57.0 39.0 116.9

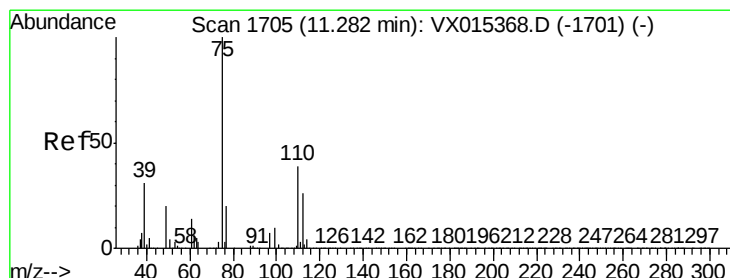
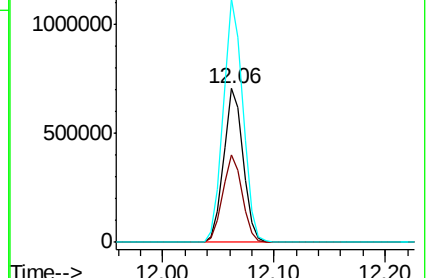
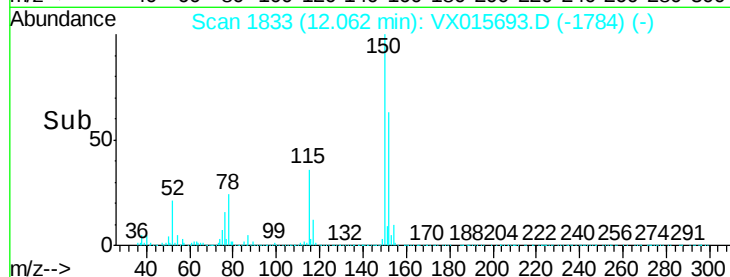
150 159.4 0.0 340.8



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



#76

1,2,3-Trichloropropane

Concen: 22.844 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015693.D

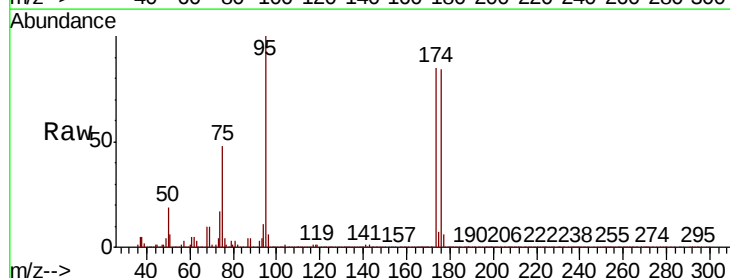
Acq: 15 Apr 2020 19:01

Tgt Ion: 75 Resp: 402621

Ion Ratio Lower Upper

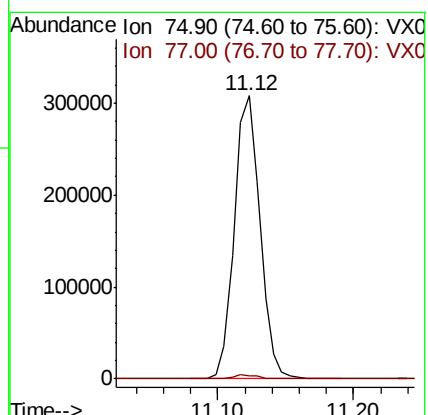
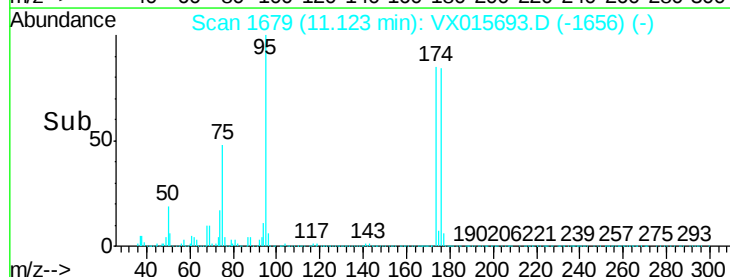
75 100

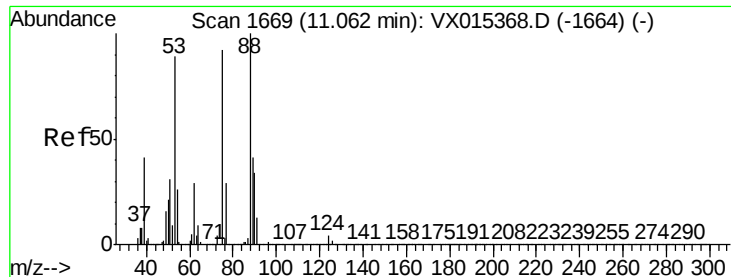
77 1.2 21.2 63.6#



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: 54.813 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015693.D

Acq: 15 Apr 2020 19:01

Instrument :

MSVOA_X

ClientSampleId :

SS037MW309-200408

Tot Ion: 75 Resp: 402621

Ion Ratio Lower Upper

75 100

53 0.0 80.1 120.1#

89 0.1 36.1 54.1#

