

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040820\
 Data File : VX015580.D
 Acq On : 08 Apr 2020 19:26
 Operator : JC/SP
 Sample : L2190-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS037MW311-200407

Quant Time: Apr 09 06:26:04 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	1018834	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	1649529	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	1574734	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	862558	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	687284	47.83	ug/l	0.00
Spiked Amount			Recovery	=	95.66%	
35) Dibromofluoromethane	5.47	113	511460	48.51	ug/l	0.00
Spiked Amount			Recovery	=	97.02%	
50) Toluene-d8	8.70	98	1975500	50.89	ug/l	0.00
Spiked Amount			Recovery	=	101.78%	
62) 4-Bromofluorobenzene	11.12	95	857877	54.38	ug/l	0.00
Spiked Amount			Recovery	=	108.76%	

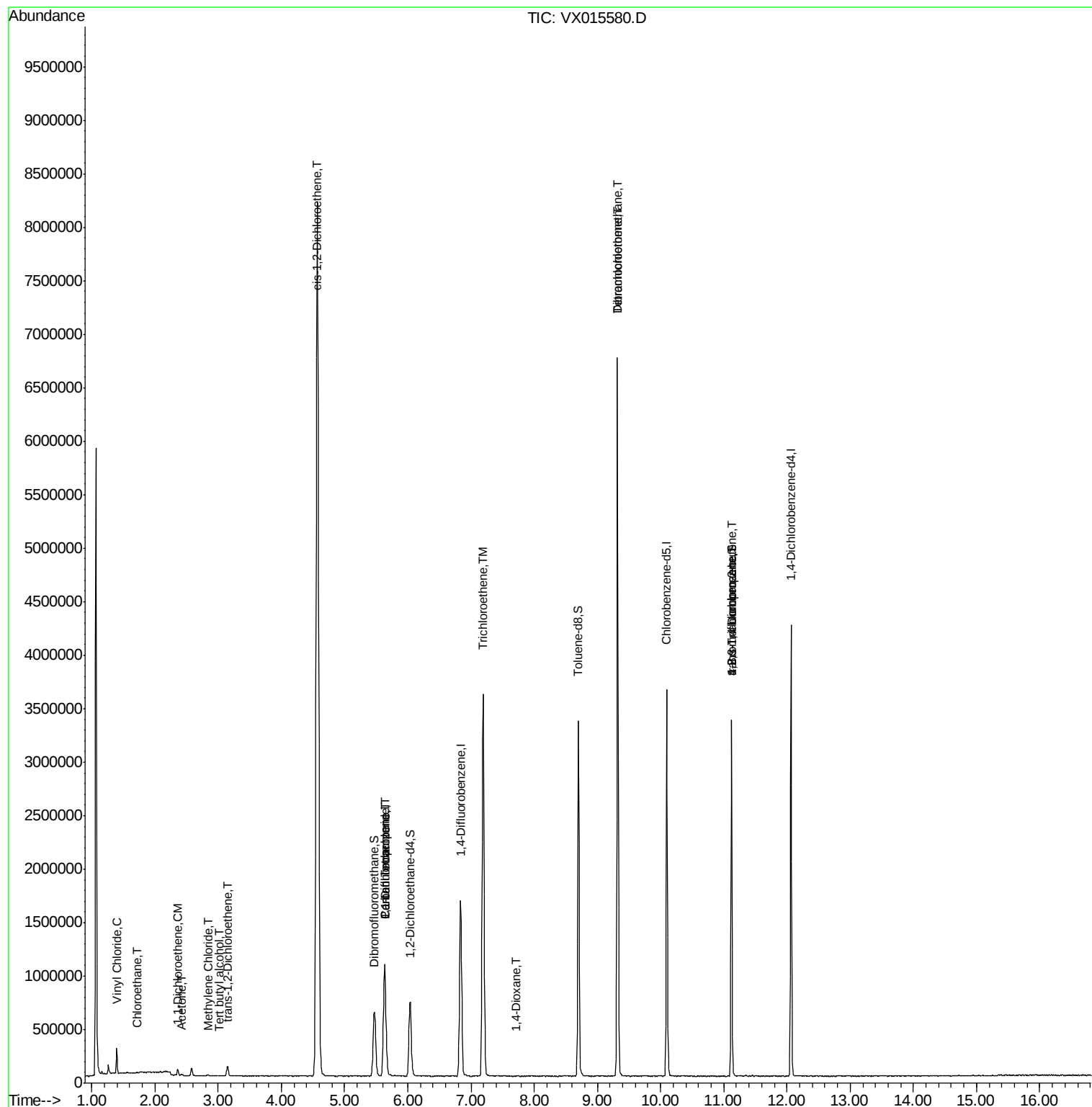
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	131599	12.538	ug/l	96
5) Bromomethane	1.64	94	700	Below Cal		87
6) Chloroethane	1.72	64	1605	0.247	ug/l #	80
11) Tert butyl alcohol	3.01	59	2131	0.620	ug/l #	62
12) 1,1-Dichloroethene	2.36	96	19179	1.994	ug/l	94
16) Acetone	2.42	43	13055	2.115	ug/l	100
20) Methylene Chloride	2.84	84	4405	0.382	ug/l #	67
21) trans-1,2-Dichloroethene	3.15	96	36897	3.456	ug/l	96
27) cis-1,2-Dichloroethene	4.57	96	5076061	410.999	ug/l	90
36) 1,1-Dichloropropene	5.63	75	72920	4.798	ug/l #	53
38) Carbon Tetrachloride	5.64	117	97773	5.939	ug/l #	14
44) Trichloroethene	7.19	130	1354019	111.516	ug/l	97
49) 1,4-Dioxane	7.72	88	501	1.609	ug/l #	63
60) Dibromochloromethane	9.32	129	1193450	88.318	ug/l #	11
64) Tetrachloroethene	9.32	164	1362002	114.607	ug/l	97
76) 1,2,3-Trichloropropane	11.12	75	440399	24.828	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	440399	59.574	ug/l #	10

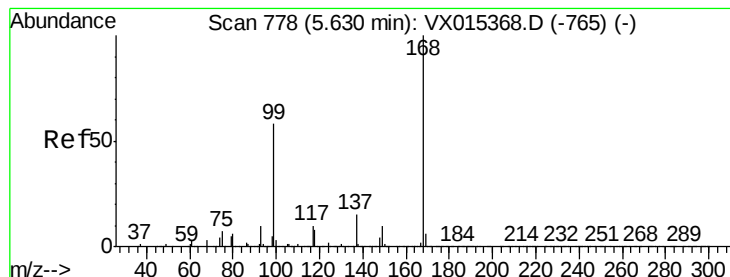
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015580.D

Acq: 08 Apr 2020 19:26

Instrument :

MSVOA_X

ClientSampleId :

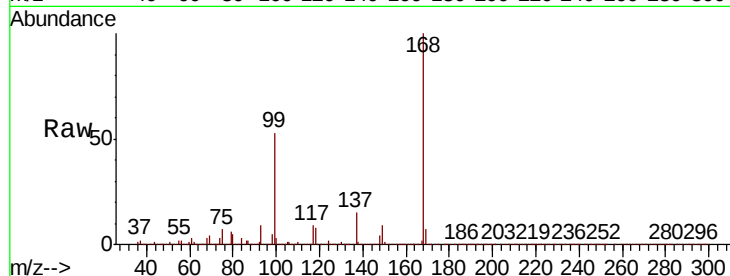
SS037MW311-200407

Tot Ion:168 Resp: 1018834

Ion Ratio Lower Upper

168 100

99 52.7 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

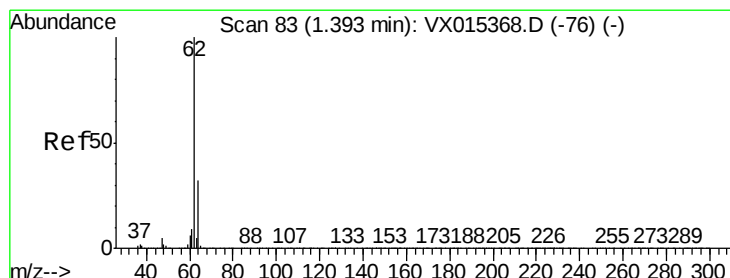
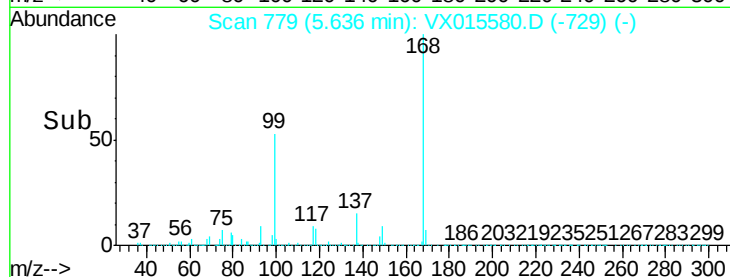
200000

100000

0

5.50 5.60 5.70

Time-->



#4

Vinyl Chloride

Concen: 12.538 ug/l

RT: 1.39 min Scan# 83

Delta R.T. 0.00 min

Lab File: VX015580.D

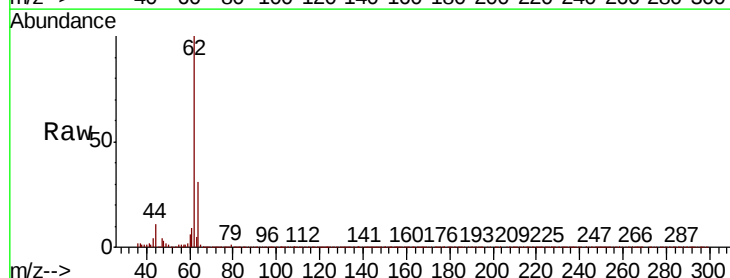
Acq: 08 Apr 2020 19:26

Tgt Ion: 62 Resp: 131599

Ion Ratio Lower Upper

62 100

64 30.0 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.39

150000

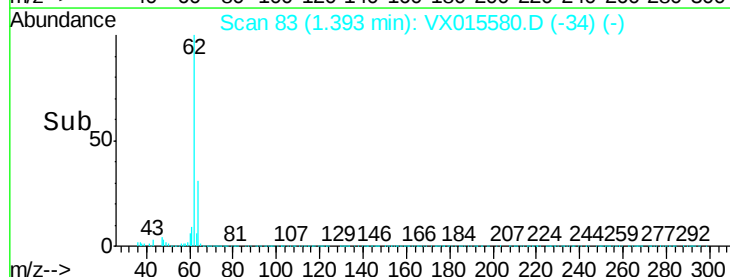
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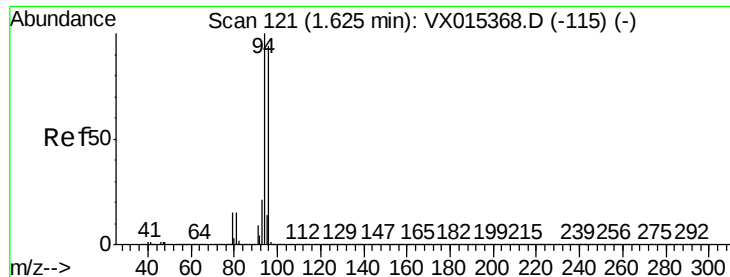
50000

0

1.35 1.40 1.45

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX015580.D

Acq: 08 Apr 2020 19:26

Instrument :

MSVOA_X

ClientSampleId :

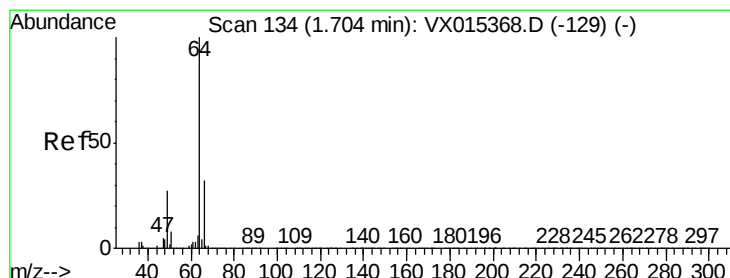
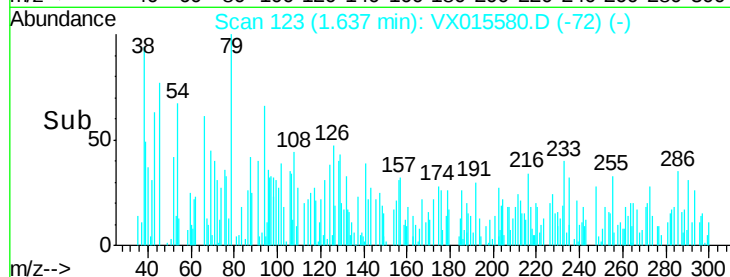
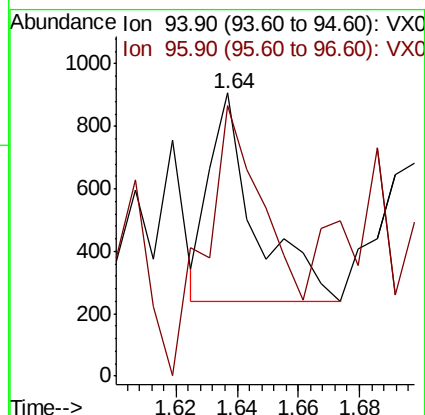
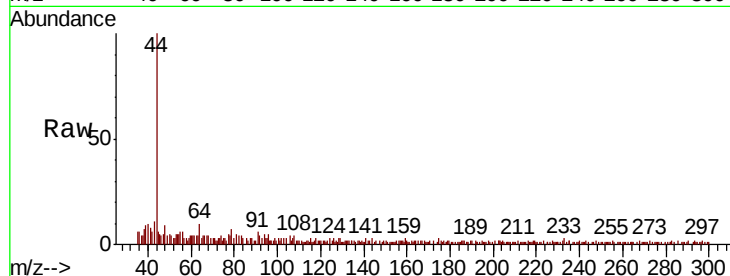
SS037MW311-200407

Tot Ion: 94 Resp: 700

Ion Ratio Lower Upper

94 100

96 80.7 74.8 112.2



#6

Chloroethane

Concen: 0.247 ug/l

RT: 1.72 min Scan# 137

Delta R.T. 0.02 min

Lab File: VX015580.D

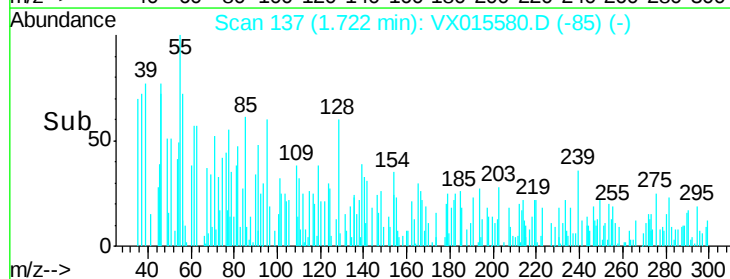
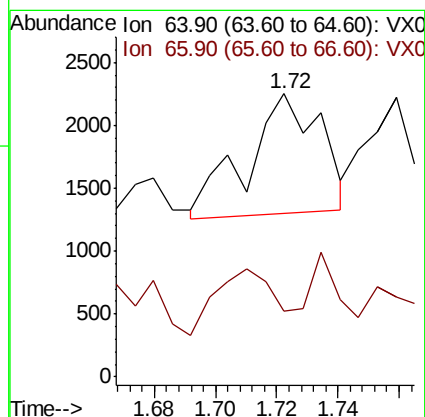
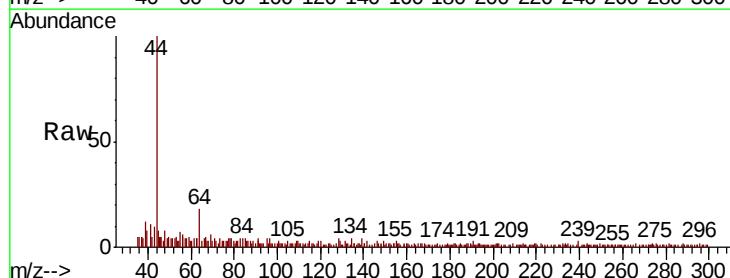
Acq: 08 Apr 2020 19:26

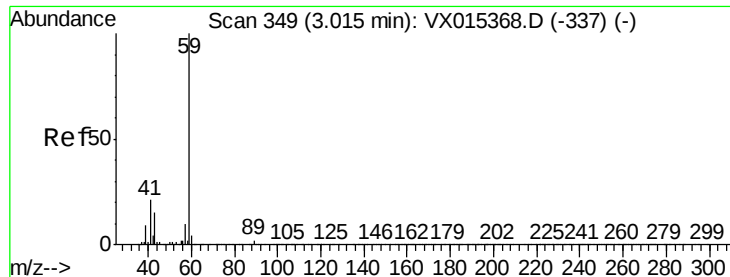
Tgt Ion: 64 Resp: 1605

Ion Ratio Lower Upper

64 100

66 20.7 25.4 38.2#



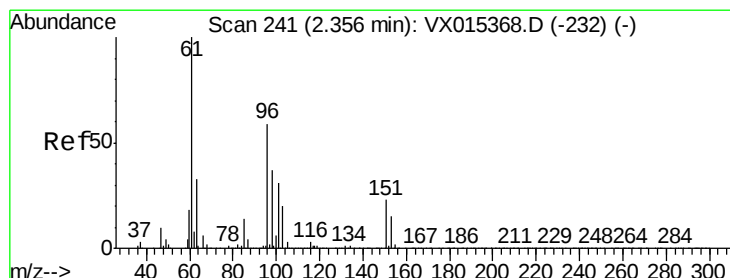
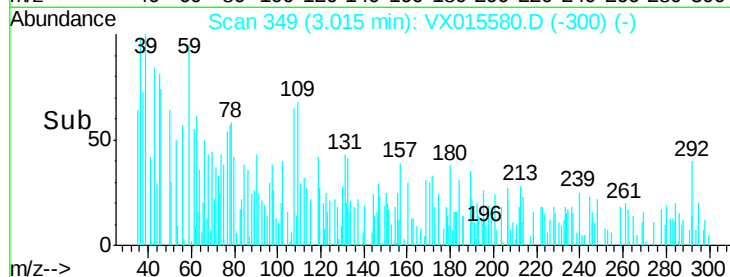
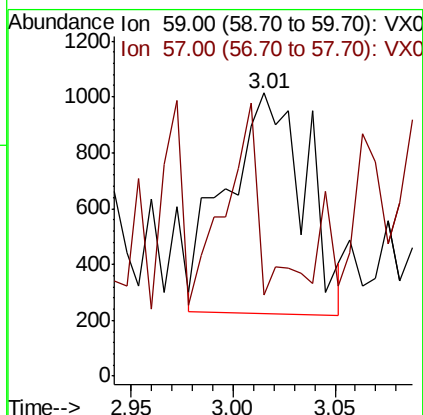
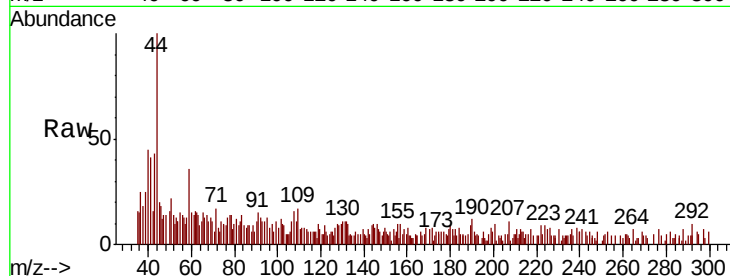


#11

Tert butyl alcohol
Concen: 0.620 ug/l
RT: 3.01 min Scan# 349
Delta R.T. 0.00 min
Lab File: VX015580.D
Acq: 08 Apr 2020 19:26

Instrument :
MSVOA_X
ClientSampleId :
SS037MW311-200407

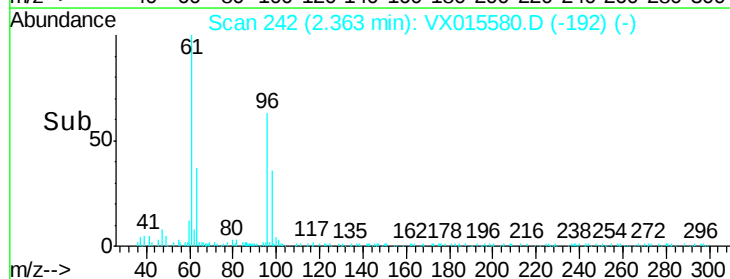
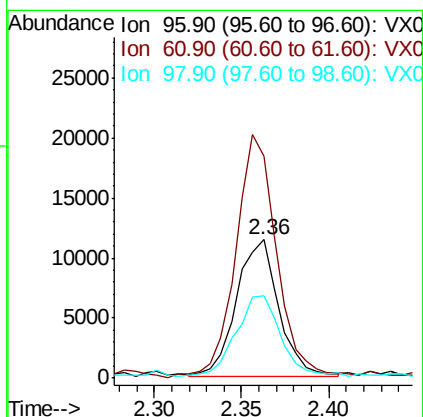
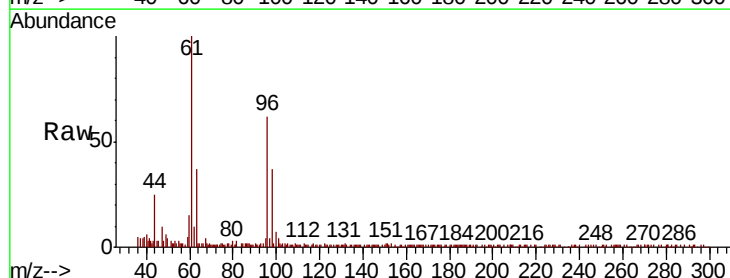
Tot Ion: 59 Resp: 2131
Ion Ratio Lower Upper
59 100
57 24.2 8.1 12.1#

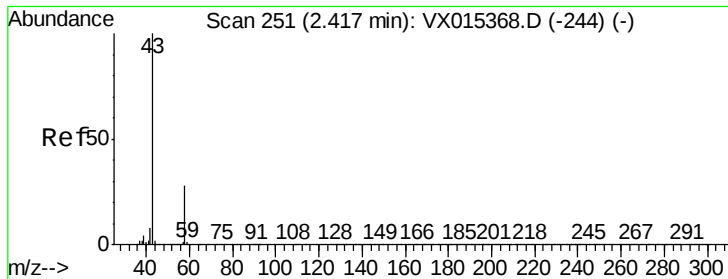


#12

1,1-Dichloroethene
Concen: 1.994 ug/l
RT: 2.36 min Scan# 242
Delta R.T. 0.01 min
Lab File: VX015580.D
Acq: 08 Apr 2020 19:26

Tgt Ion: 96 Resp: 19179
Ion Ratio Lower Upper
96 100
61 160.9 135.7 203.5
98 59.6 50.6 75.8

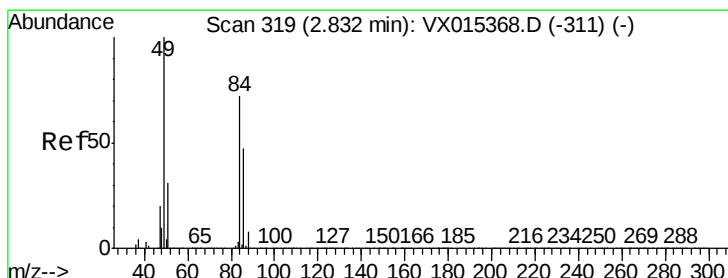
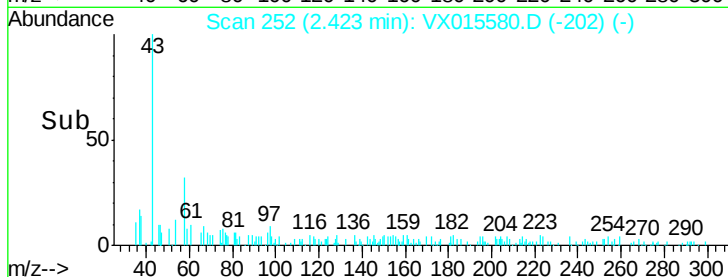
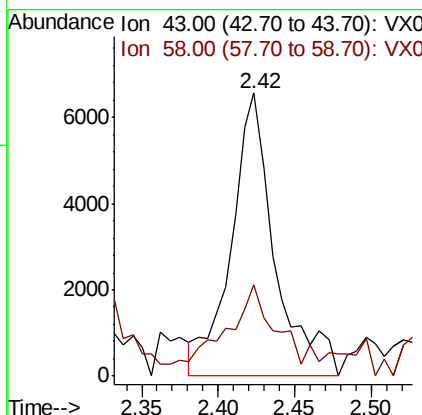
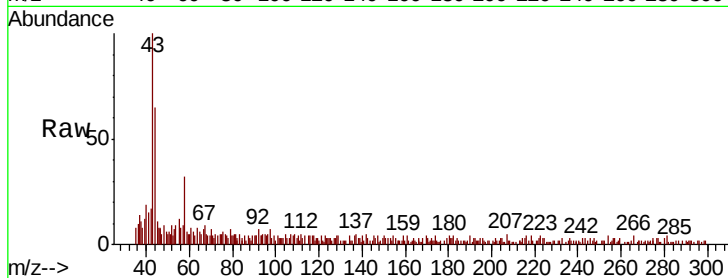




#16
Acetone
Concen: 2.115 ug/l
RT: 2.42 min Scan# 252
Delta R.T. 0.01 min
Lab File: VX015580.D
Acq: 08 Apr 2020 19:26

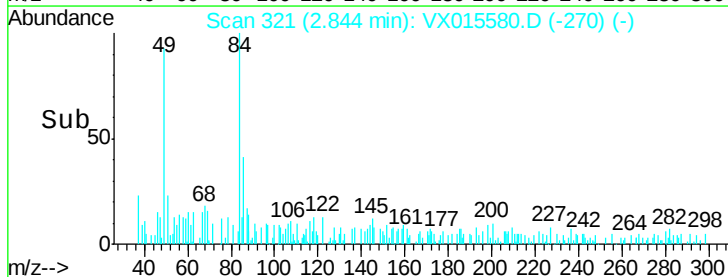
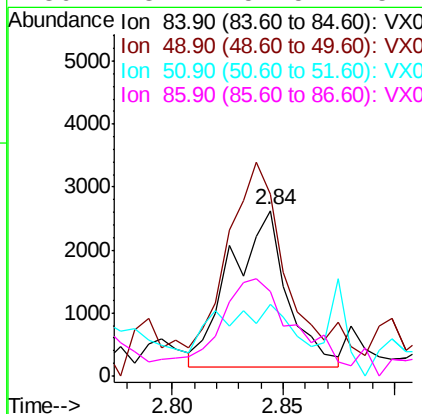
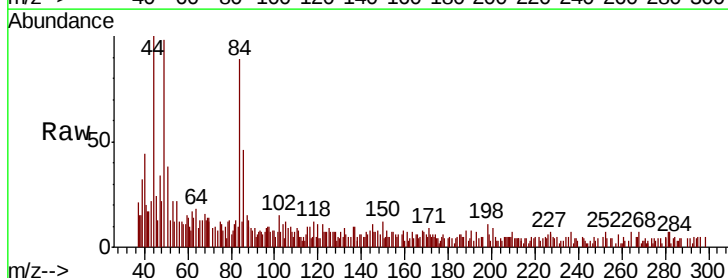
Instrument :
MSVOA_X
ClientSampleId :
SS037MW311-200407

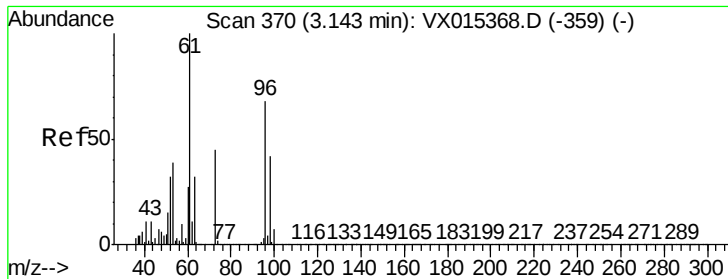
Tot Ion: 43 Resp: 13055
Ion Ratio Lower Upper
43 100
58 27.4 22.1 33.1



#20
Methylene Chloride
Concen: 0.382 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.01 min
Lab File: VX015580.D
Acq: 08 Apr 2020 19:26

Tgt Ion: 84 Resp: 4405
Ion Ratio Lower Upper
84 100
49 87.0 111.3 166.9#
51 33.2 34.0 51.0#
86 48.1 52.5 78.7#





#21

trans-1,2-Dichloroethene

Concen: 3.456 ug/l

RT: 3.15 min Scan# 371

Delta R.T. 0.01 min

Lab File: VX015580.D

Acq: 08 Apr 2020 19:26

Instrument :

MSVOA_X

ClientSampleId :

SS037MW311-200407

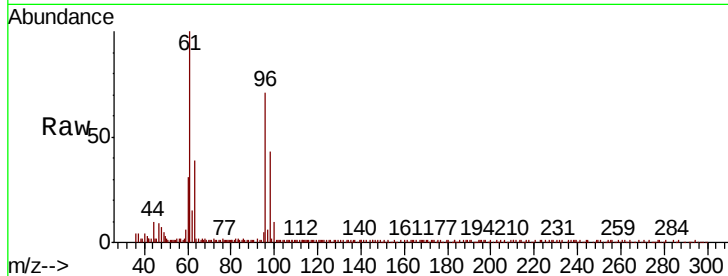
Tot Ion: 96 Resp: 36897

Ion Ratio Lower Upper

96 100

61 140.4 116.9 175.3

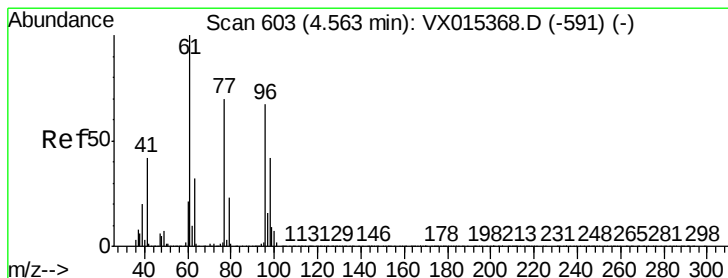
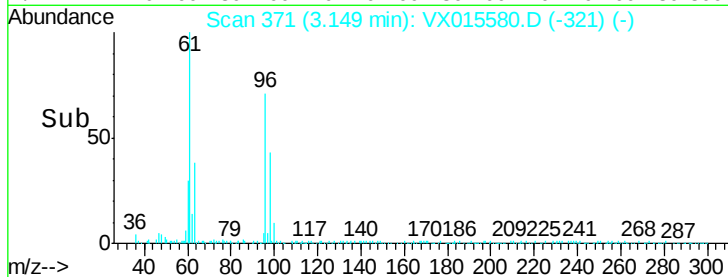
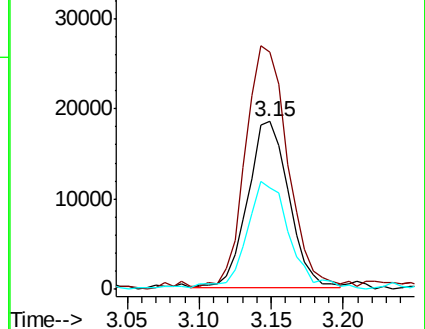
98 59.7 48.6 73.0



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 410.999 ug/l

RT: 4.57 min Scan# 604

Delta R.T. 0.01 min

Lab File: VX015580.D

Acq: 08 Apr 2020 19:26

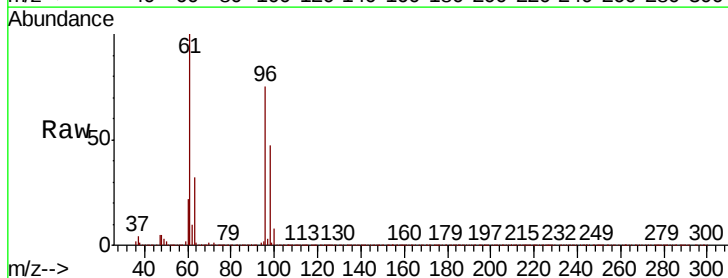
Tgt Ion: 96 Resp: 5076061

Ion Ratio Lower Upper

96 100

61 135.8 0.0 308.4

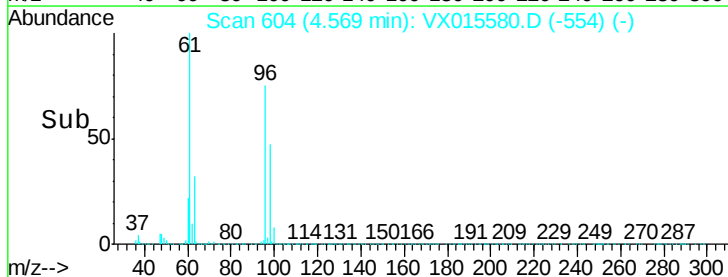
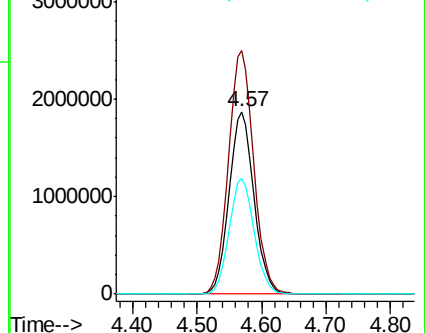
98 64.0 0.0 129.2

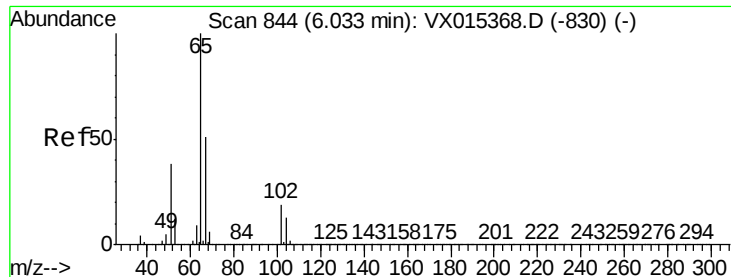


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 47.829 ug/l

RT: 6.04 min Scan# 845

Delta R.T. 0.01 min

Lab File: VX015580.D

Acq: 08 Apr 2020 19:26

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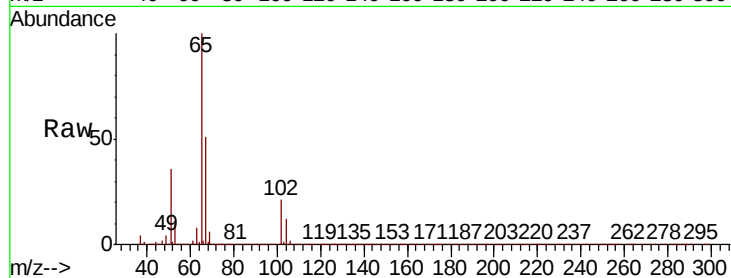
SS037MW311-200407

Tot Ion: 65 Resp: 687284

Ion Ratio Lower Upper

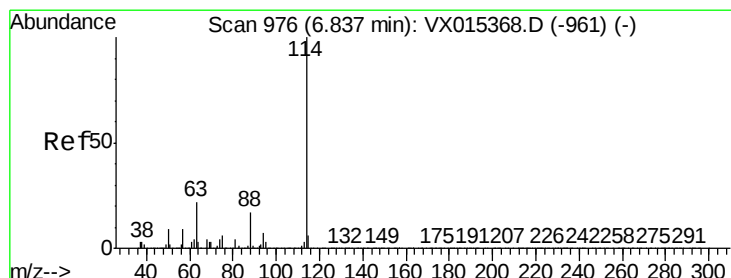
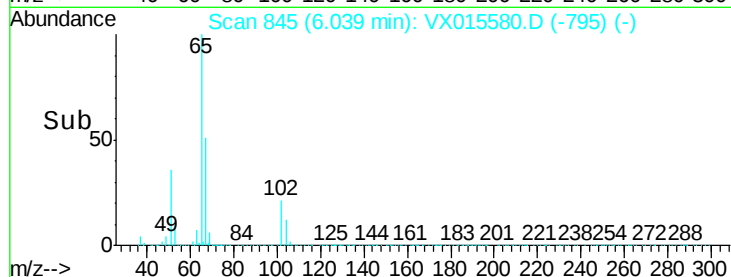
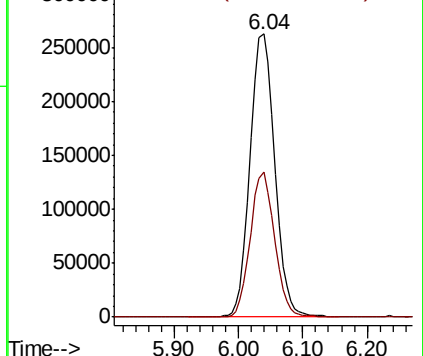
65 100

67 50.3 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: VX015580.D

Acq: 08 Apr 2020 19:26

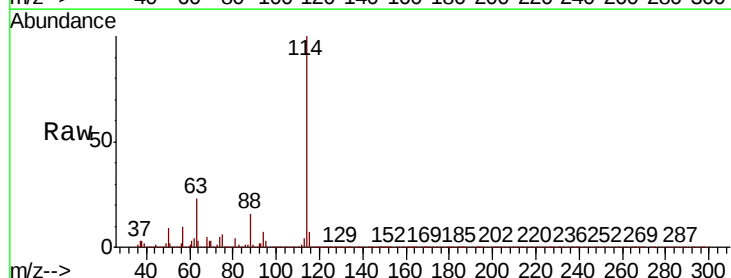
Tgt Ion: 114 Resp: 1649529

Ion Ratio Lower Upper

114 100

63 22.5 0.0 44.2

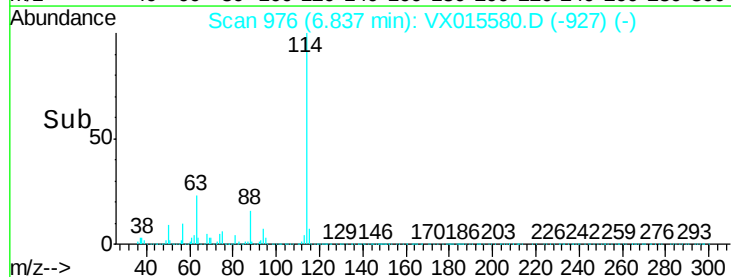
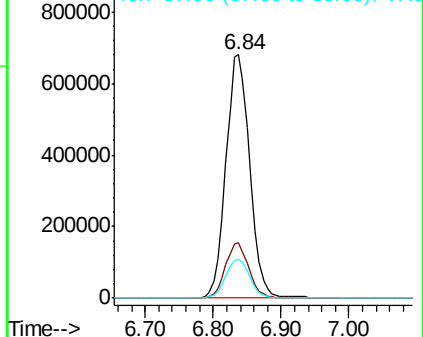
88 16.0 0.0 33.8

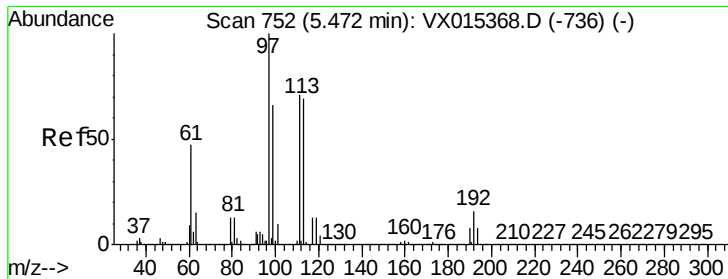


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

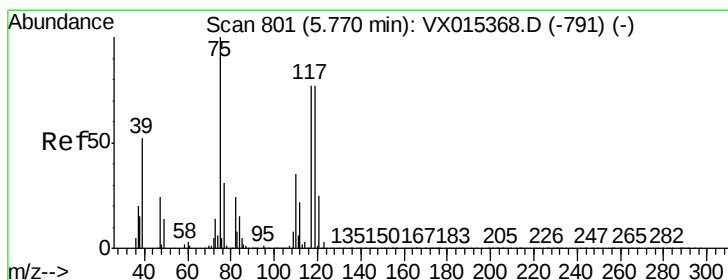
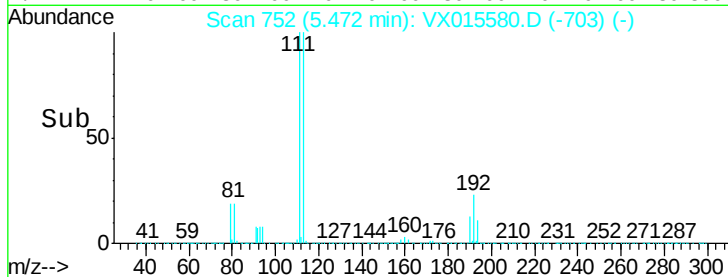
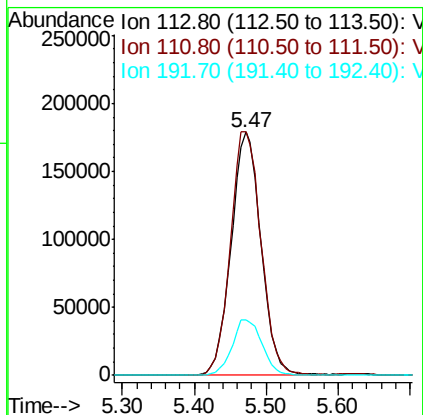
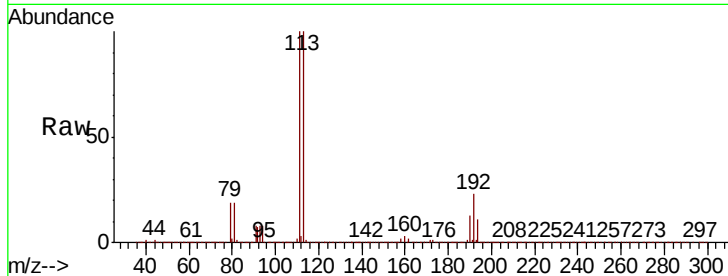




#35
Dibromofluoromethane
Concen: 48.506 ug/l
RT: 5.47 min Scan# 752
Delta R.T. 0.00 min
Lab File: VX015580.D
Acq: 08 Apr 2020 19:26

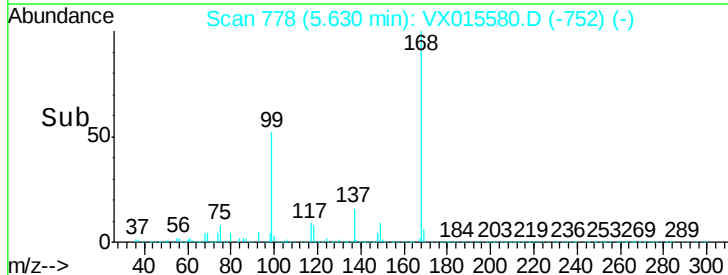
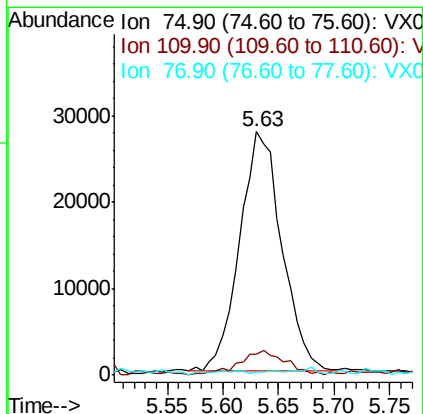
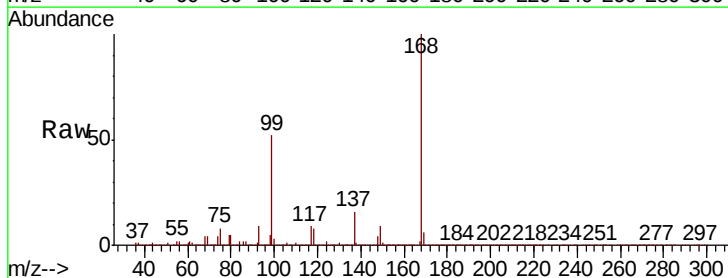
Instrument :
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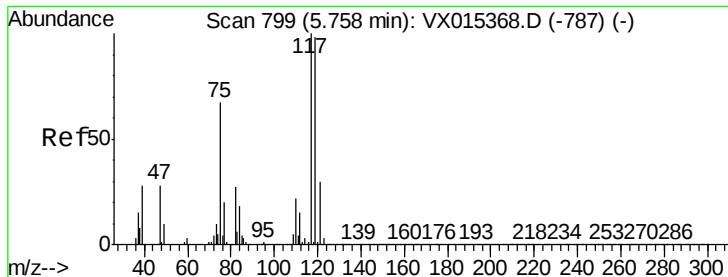
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.3	81.5	122.3
192	23.3	17.8	26.6



#36
1,1-Dichloropropene
Concen: 4.798 ug/l
RT: 5.63 min Scan# 778
Delta R.T. -0.14 min
Lab File: VX015580.D
Acq: 08 Apr 2020 19:26

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.4	17.1	51.3#
77	0.6	24.6	36.8#

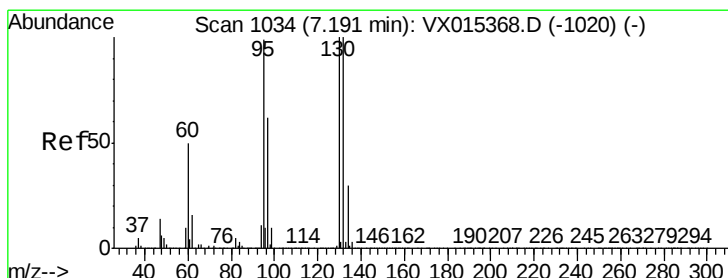
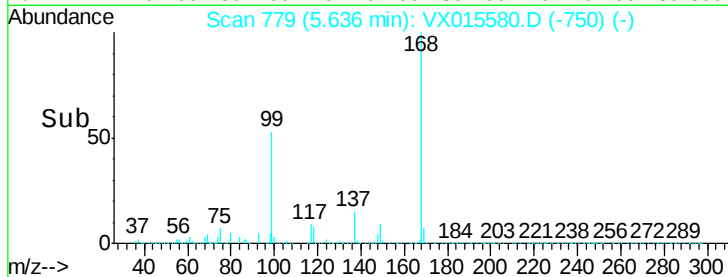
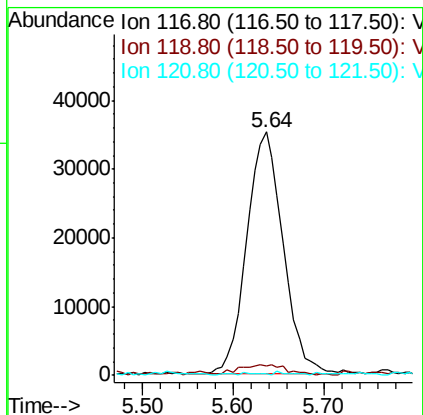
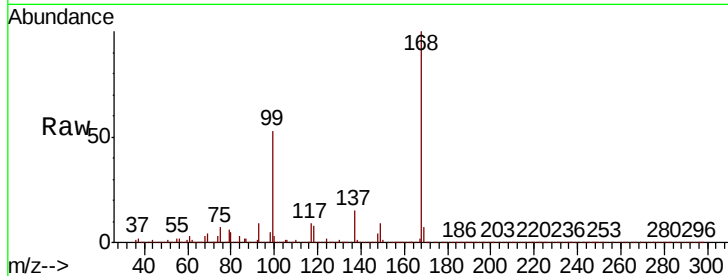




#38
Carbon Tetrachloride
Concen: 5.939 ug/l
RT: 5.64 min Scan# 779
Delta R.T. -0.12 min
Lab File: VX015580.D
Acq: 08 Apr 2020 19:26

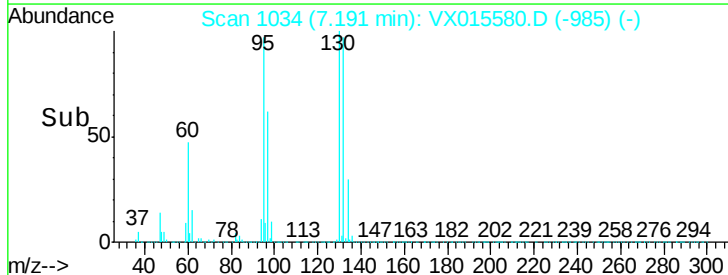
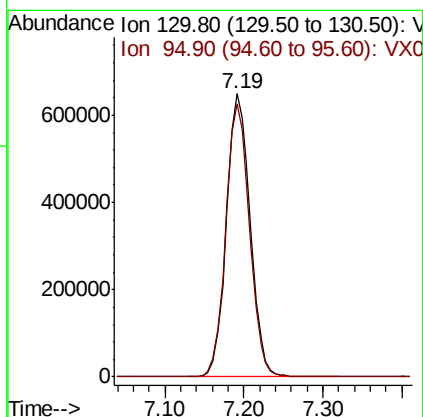
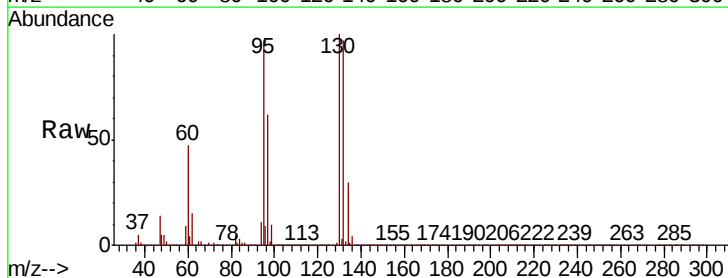
Instrument :
MSVOA_X
ClientSampleId :
SS037MW311-200407

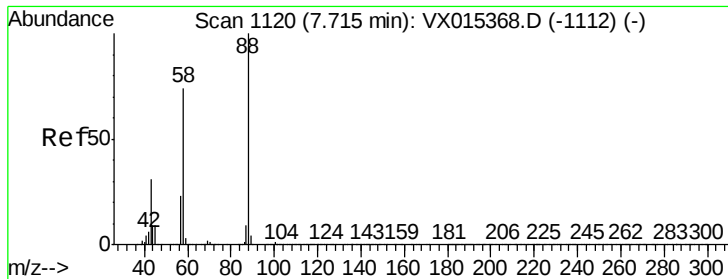
Tot Ion:117 Resp: 97773
Ion Ratio Lower Upper
117 100
119 3.4 78.0 117.0#
121 0.0 23.8 35.8#



#44
Trichloroethene
Concen: 111.516 ug/l
RT: 7.19 min Scan# 1034
Delta R.T. 0.00 min
Lab File: VX015580.D
Acq: 08 Apr 2020 19:26

Tgt Ion:130 Resp: 1354019
Ion Ratio Lower Upper
130 100
95 96.5 0.0 199.0





#49

1,4-Dioxane

Concen: 1.609 ug/l

RT: 7.72 min Scan# 1120

Delta R.T. 0.00 min

Lab File: VX015580.D

Acq: 08 Apr 2020 19:26

Instrument :

MSVOA_X

ClientSampleId :

SS037MW311-200407

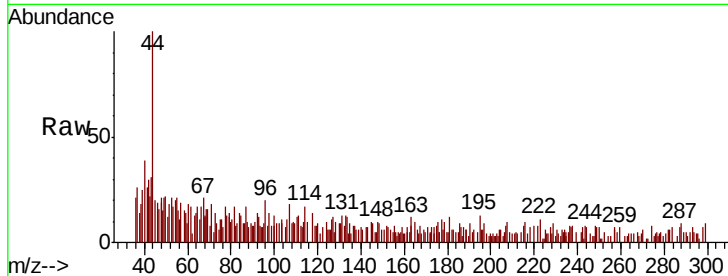
Tot Ion: 88 Resp: 501

Ion Ratio Lower Upper

88 100

43 99.0 30.1 45.1#

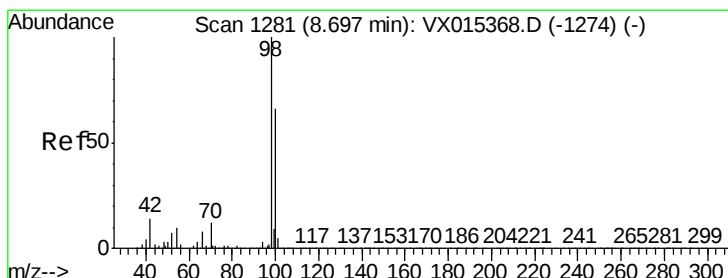
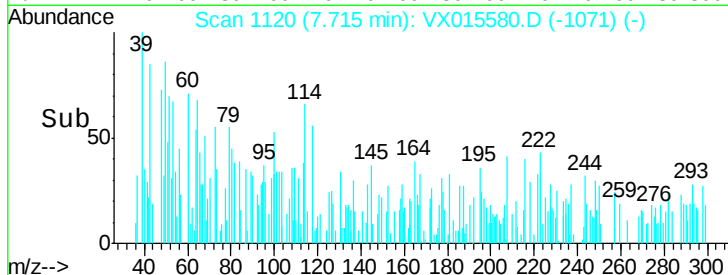
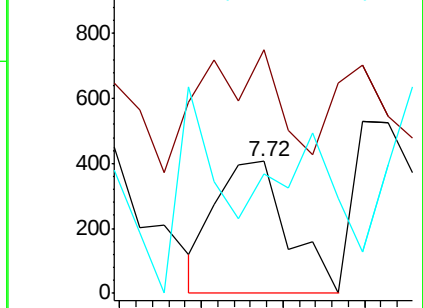
58 71.3 60.6 90.8



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: 50.887 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. 0.00 min

Lab File: VX015580.D

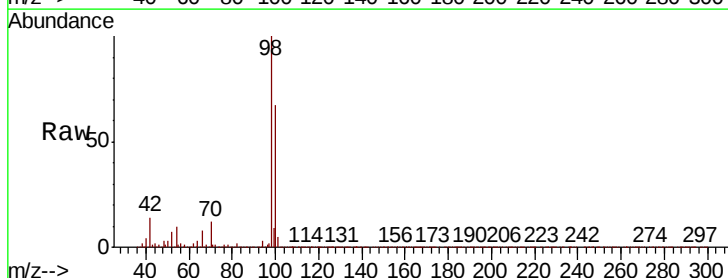
Acq: 08 Apr 2020 19:26

Tgt Ion: 98 Resp: 1975500

Ion Ratio Lower Upper

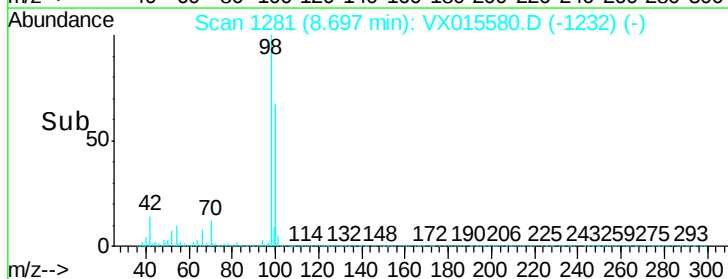
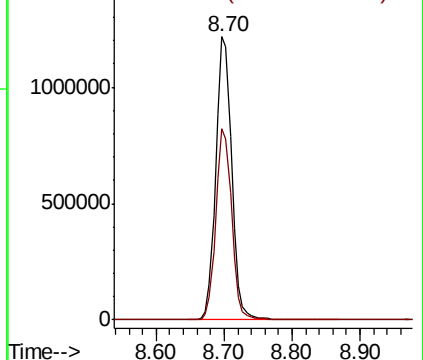
98 100

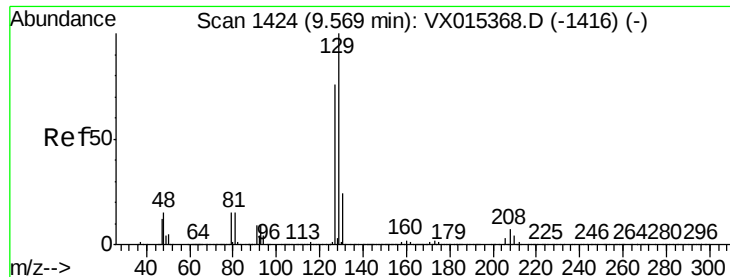
100 67.3 53.5 80.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 88.318 ug/l

RT: 9.32 min Scan# 1383

Delta R.T. -0.25 min

Lab File: VX015580.D

Acq: 08 Apr 2020 19:26

Instrument :

MSVOA_X

ClientSampleId :

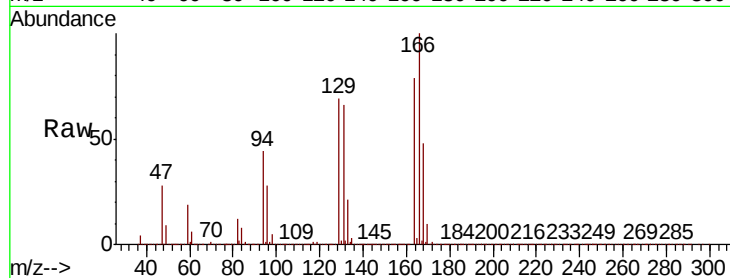
SS037MW311-200407

Tot Ion:129 Resp: 1193450

Ion Ratio Lower Upper

129 100

127 0.1 38.2 114.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

800000

600000

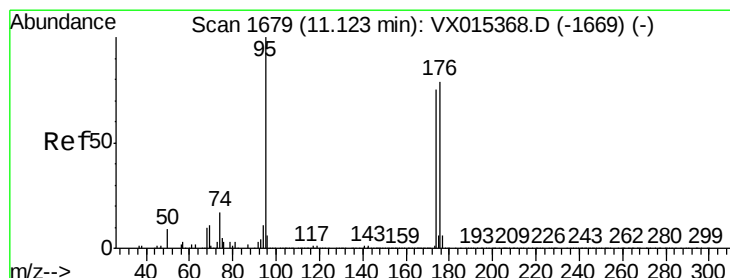
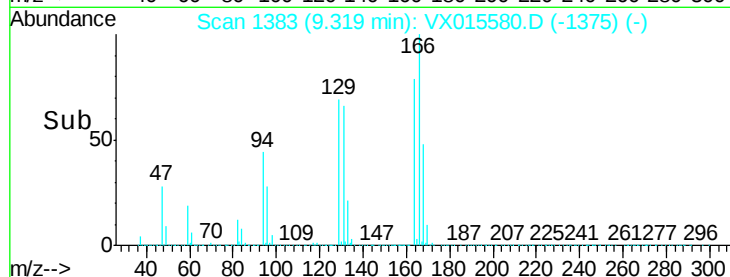
400000

200000

0

9.30 9.40

Time-->



#62

4-Bromofluorobenzene

Concen: 54.375 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.00 min

Lab File: VX015580.D

Acq: 08 Apr 2020 19:26

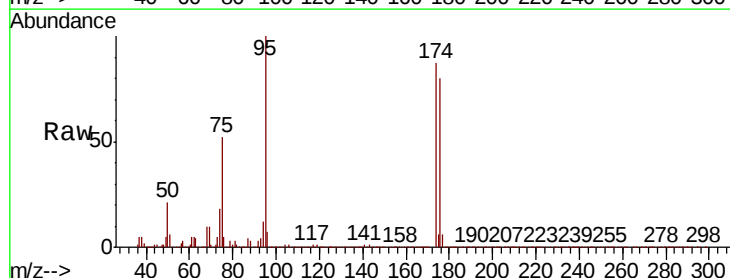
Tgt Ion: 95 Resp: 857877

Ion Ratio Lower Upper

95 100

174 83.8 0.0 158.6

176 82.9 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

800000

600000

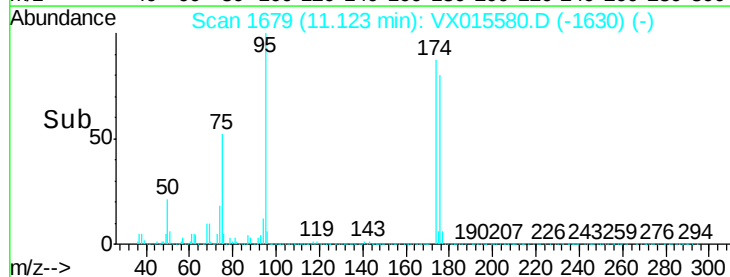
400000

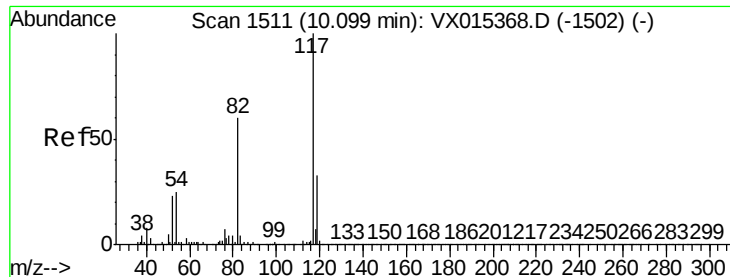
200000

0

11.00 11.10 11.20 11.30

Time-->

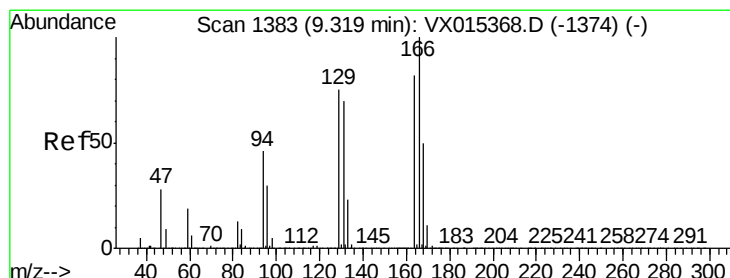
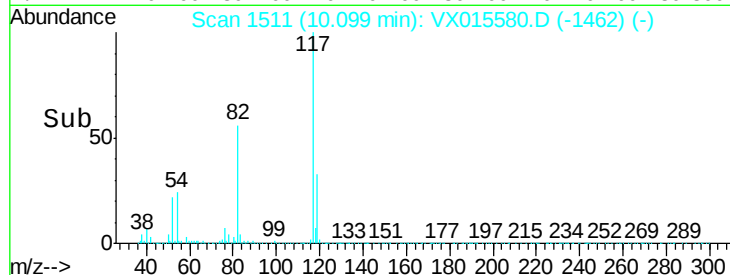
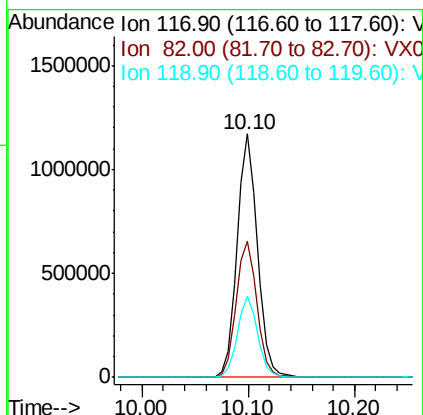
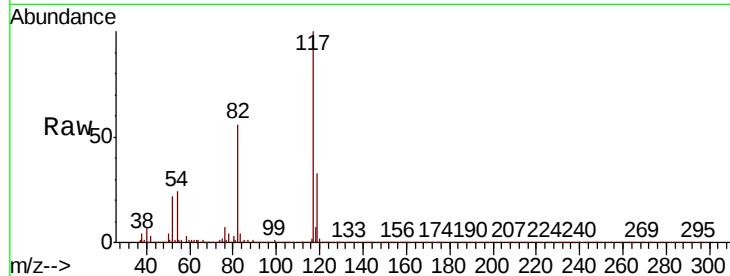




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1511
Delta R.T. 0.00 min
Lab File: VX015580.D
Acq: 08 Apr 2020 19:26

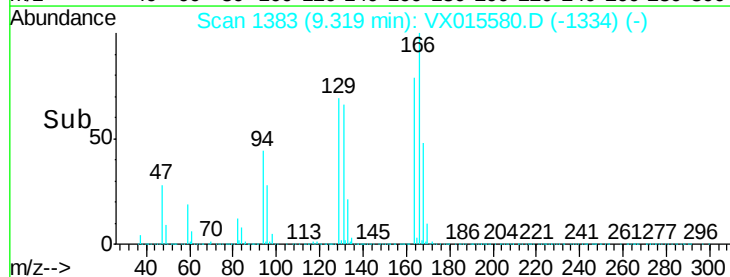
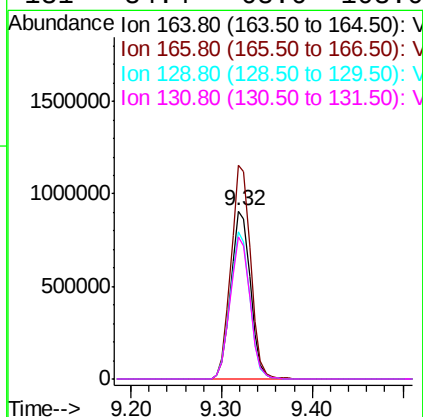
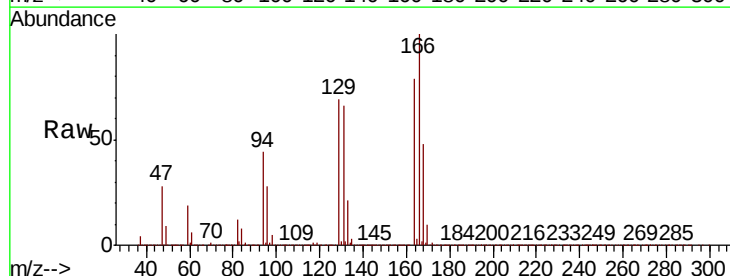
Instrument :
MSVOA_X
ClientSampleId :
SS037MW311-200407

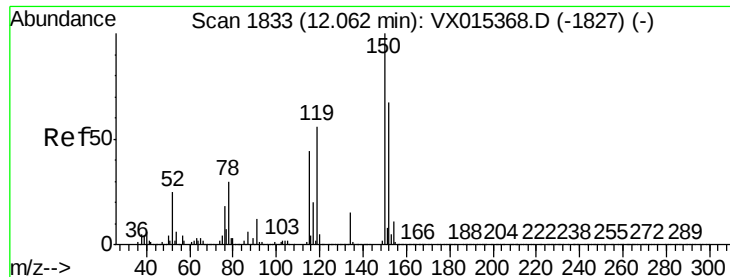
Tot Ion:117 Resp: 1574734
Ion Ratio Lower Upper
117 100
82 55.6 47.8 71.8
119 33.4 26.8 40.2



#64
Tetrachloroethene
Concen: 114.607 ug/l
RT: 9.32 min Scan# 1383
Delta R.T. 0.00 min
Lab File: VX015580.D
Acq: 08 Apr 2020 19:26

Tgt Ion:164 Resp: 1362002
Ion Ratio Lower Upper
164 100
166 127.2 97.8 146.6
129 87.8 73.0 109.4
131 84.4 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: VX015580.D

Acq: 08 Apr 2020 19:26

Instrument :

MSVOA_X

ClientSampleId :

SS037MW311-200407

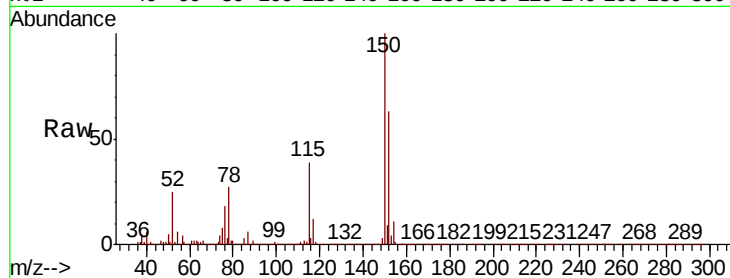
Tot Ion:152 Resp: 862558

Ion Ratio Lower Upper

152 100

115 58.6 39.0 116.9

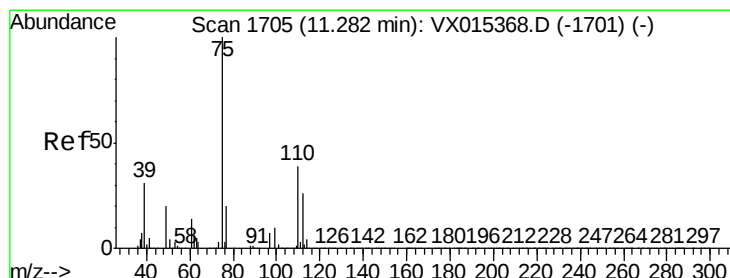
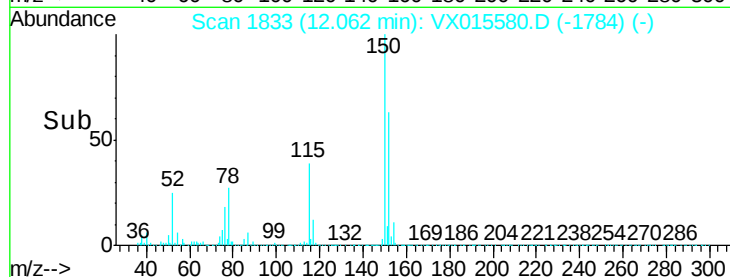
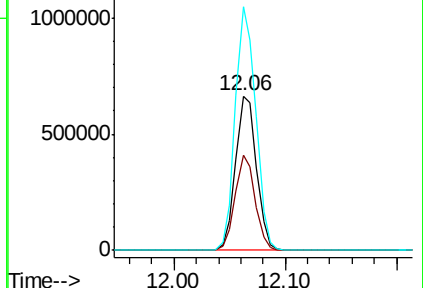
150 154.6 0.0 340.8



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



#76

1,2,3-Trichloropropane

Concen: 24.828 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015580.D

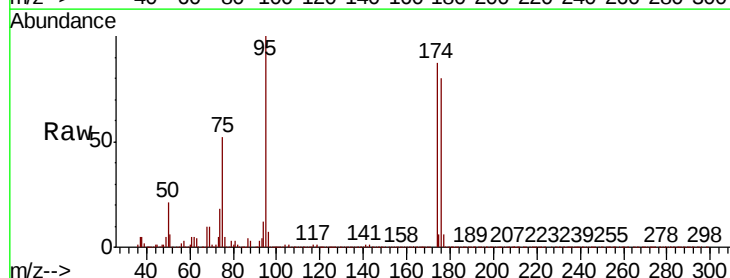
Acq: 08 Apr 2020 19:26

Tgt Ion: 75 Resp: 440399

Ion Ratio Lower Upper

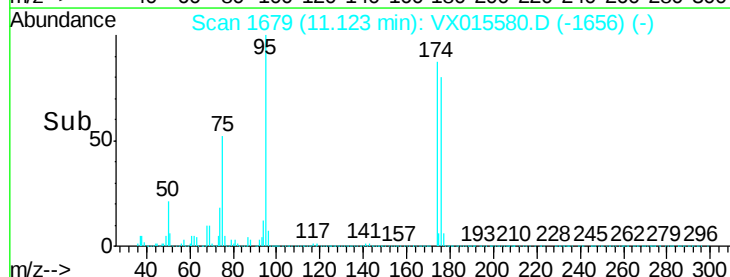
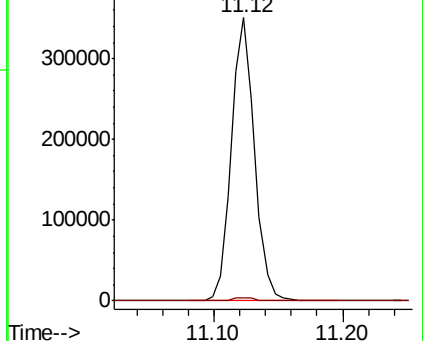
75 100

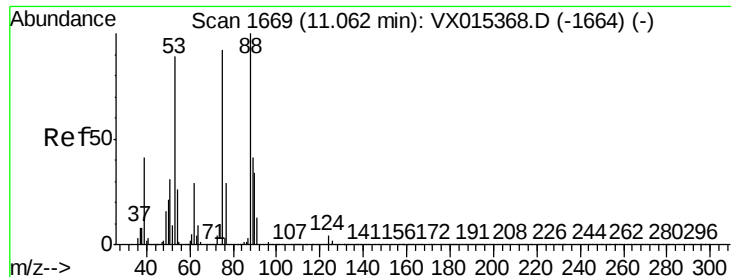
77 1.0 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 59.574 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015580.D

Acq: 08 Apr 2020 19:26

Instrument :

MSVOA_X

ClientSampleId :

SS037MW311-200407

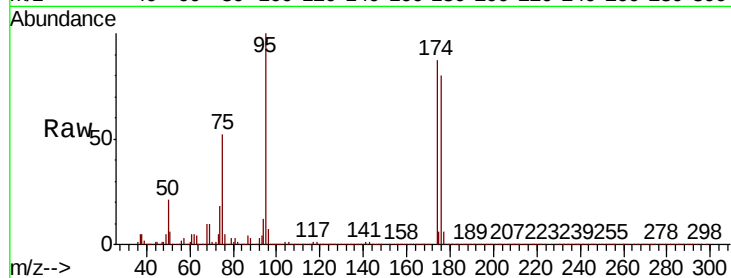
Tot Ion: 75 Resp: 440399

Ion Ratio Lower Upper

75 100

53 0.2 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

