

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100119\
 Data File : VX012743.D
 Acq On : 01 Oct 2019 19:08
 Operator : JC/SP
 Sample : K5110-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-4

Quant Time: Oct 02 01:48:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	163879	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	287000	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	240857	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	93696	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	120932	50.68	ug/l	0.00
Spiked Amount			Recovery	=	101.36%	
35) Dibromofluoromethane	5.49	113	87903	51.43	ug/l	0.00
Spiked Amount			Recovery	=	102.86%	
50) Toluene-d8	8.71	98	343172	52.14	ug/l	0.00
Spiked Amount			Recovery	=	104.28%	
62) 4-Bromofluorobenzene	11.14	95	116517	45.02	ug/l	0.00
Spiked Amount			Recovery	=	90.04%	

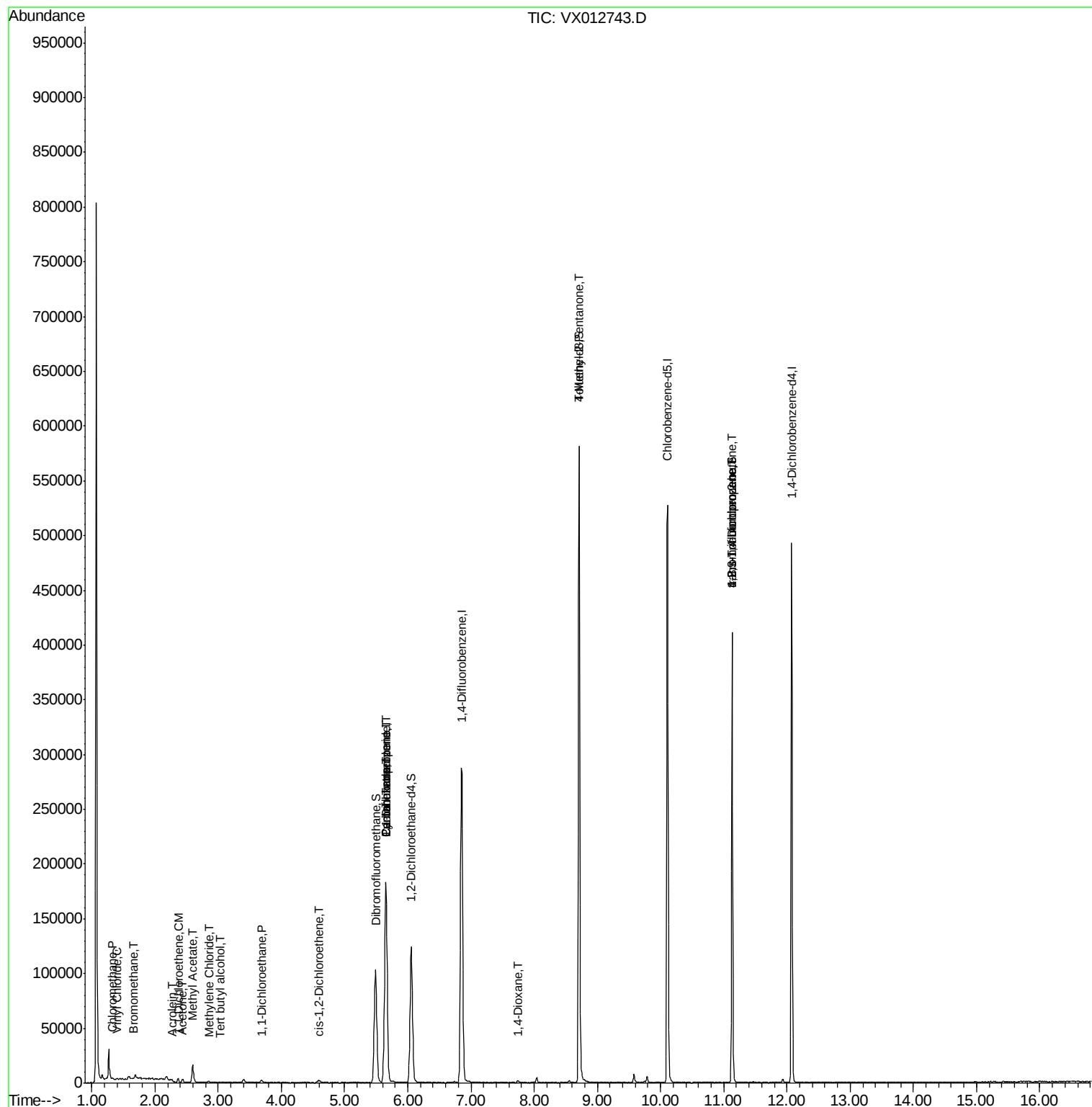
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	468	0.221	ug/l	95
4) Vinyl Chloride	1.40	62	485	0.230	ug/l #	41
5) Bromomethane	1.66	94	228	0.276	ug/l	85
11) Tert butyl alcohol	3.03	59	582	0.976	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	1036	0.588	ug/l	97
13) Acrolein	2.28	56	72	10.441	ug/l #	15
16) Acetone	2.43	43	3201	2.532	ug/l	91
18) Methyl Acetate	2.59	43	4876	1.638	ug/l #	54
20) Methylene Chloride	2.84	84	482	0.225	ug/l #	68
24) 1,1-Dichloroethane	3.69	63	2646	0.721	ug/l #	90
27) cis-1,2-Dichloroethene	4.59	96	1409	0.622	ug/l	83
31) Cyclohexane	5.65	56	3736	1.125	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	13901	5.025	ug/l #	51
38) Carbon Tetrachloride	5.65	117	17325	6.165	ug/l #	17
49) 1,4-Dioxane	7.74	88	1229	20.893	ug/l #	83
51) 4-Methyl-2-Pentanone	8.71	43	1929	0.578	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	58953	23.786	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	58953	68.165	ug/l #	8

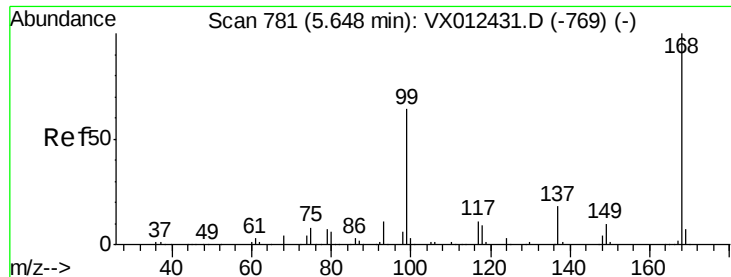
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 02 01:48:53 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
Quant Title : SW846 8260
QLast Update : Mon Sep 23 12:27:01 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012743.D

Acq: 01 Oct 2019 19:08

Instrument :

MSVOA_X

ClientSampled :

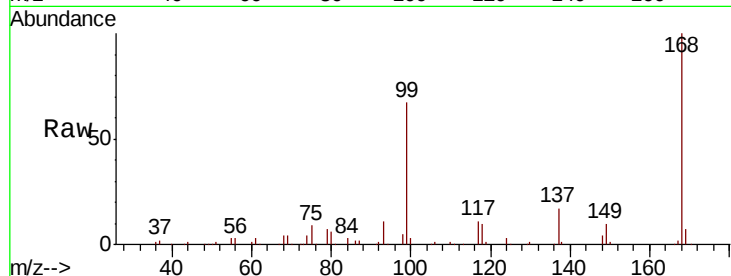
MW-4

Tot Ion:168 Resp: 163879

Ion Ratio Lower Upper

168 100

99 66.9 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

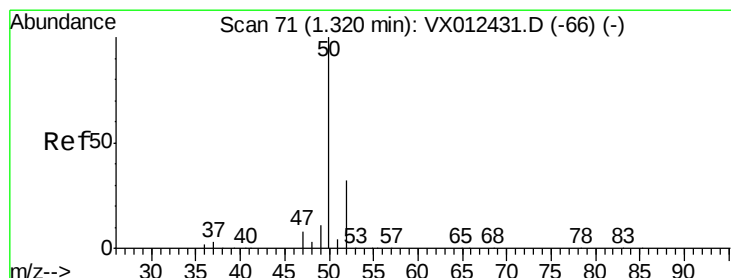
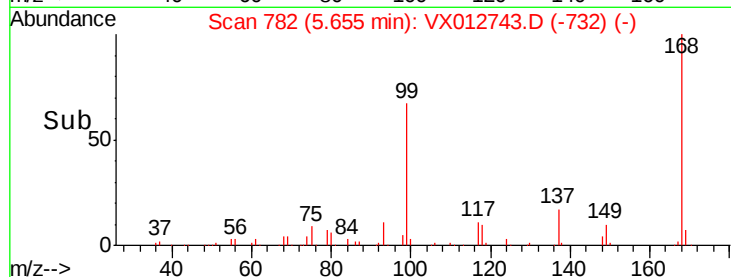
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.221 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012743.D

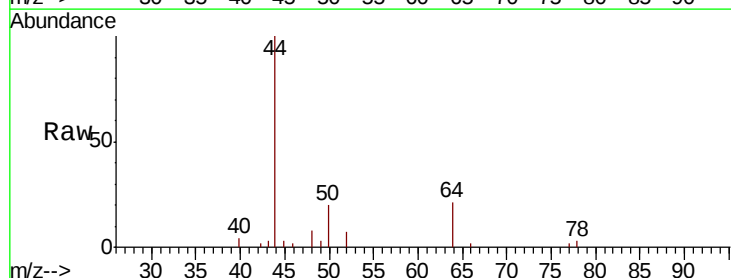
Acq: 01 Oct 2019 19:08

Tgt Ion: 50 Resp: 468

Ion Ratio Lower Upper

50 100

52 35.1 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

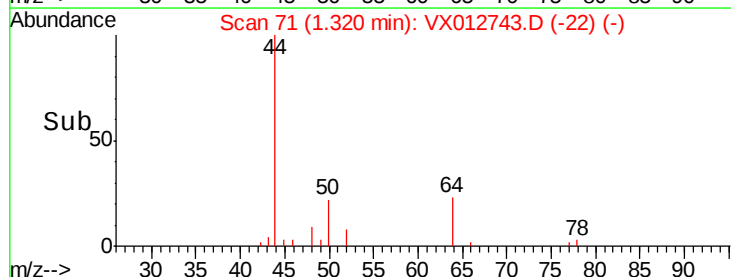
600

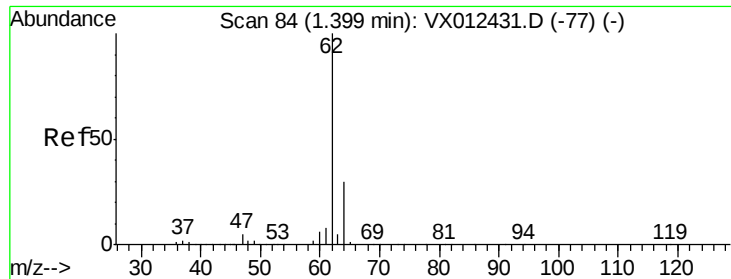
400

200

0

Time--> 1.30 1.32 1.34





#4

Vinyl Chloride

Concen: 0.230 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX012743.D

Acq: 01 Oct 2019 19:08

Instrument :

MSVOA_X

ClientSampled :

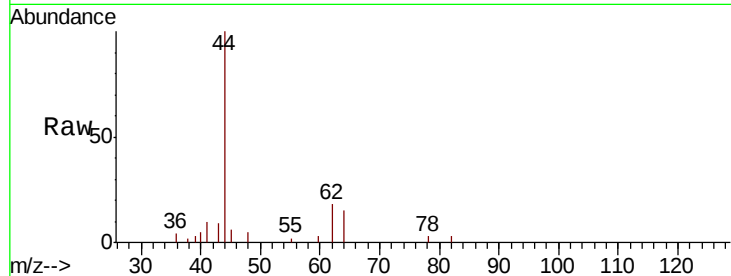
MW-4

Tot Ion: 62 Resp: 485

Ion Ratio Lower Upper

62 100

64 62.2 24.2 36.2#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

400

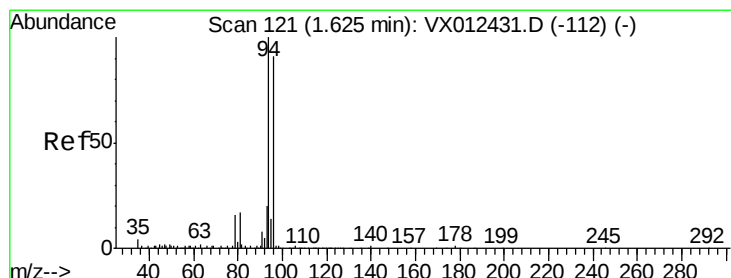
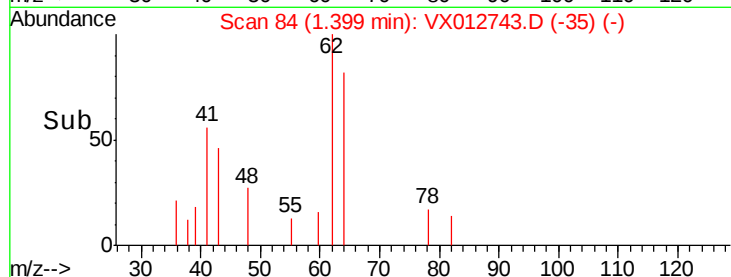
300

200

100

0

Time--> 1.35 1.40



#5

Bromomethane

Concen: 0.276 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.03 min

Lab File: VX012743.D

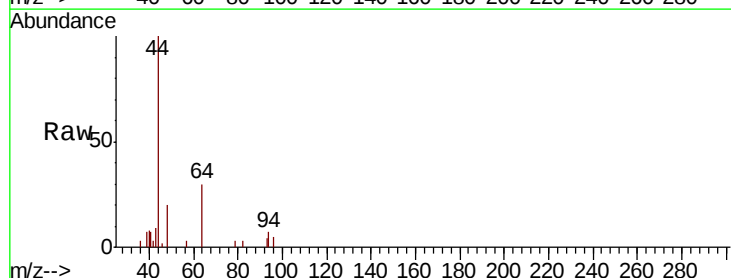
Acq: 01 Oct 2019 19:08

Tgt Ion: 94 Resp: 228

Ion Ratio Lower Upper

94 100

96 76.7 72.8 109.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

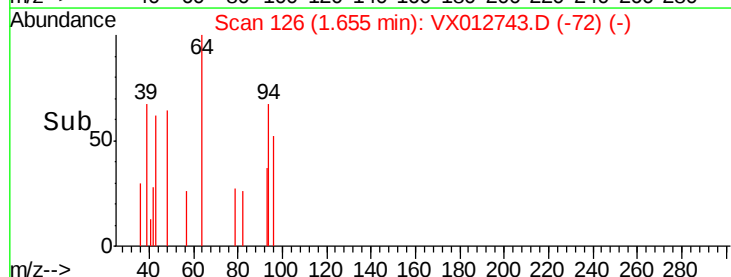
150

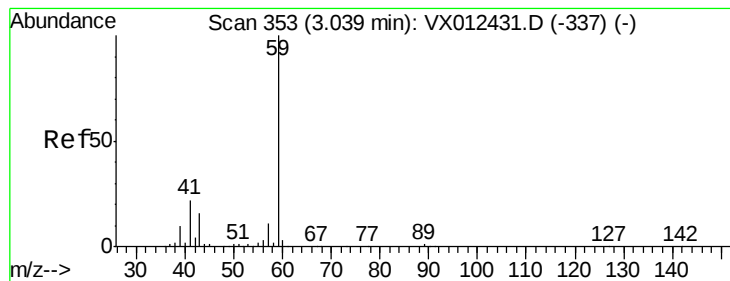
100

50

0

Time--> 1.60 1.65



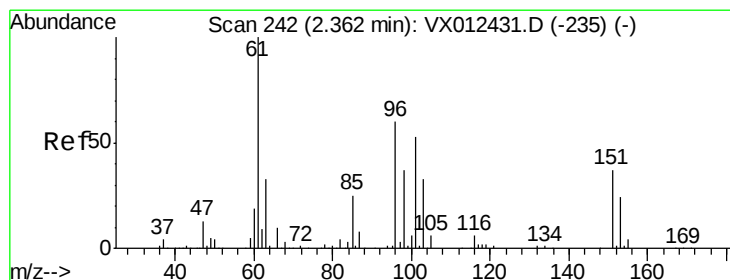
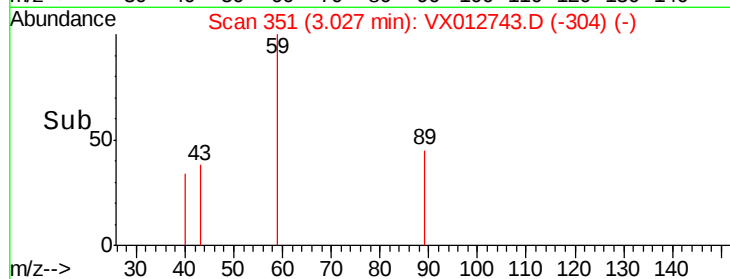
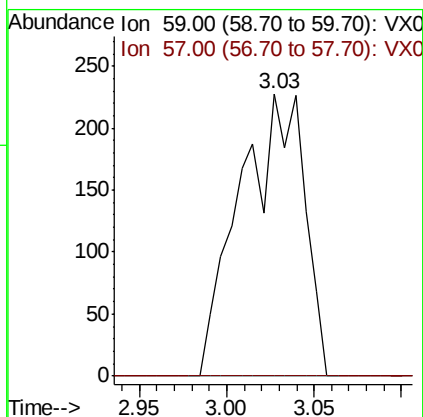
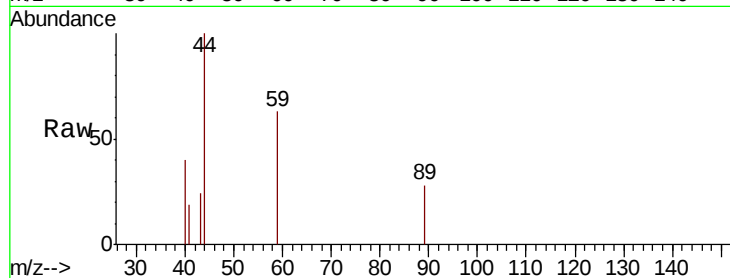


#11

Tert butyl alcohol
 Concen: 0.976 ug/l
 RT: 3.03 min Scan# 351
 Delta R.T. -0.01 min
 Lab File: VX012743.D
 Acq: 01 Oct 2019 19:08

Instrument :
 MSVOA_X
 ClientSampled :
 MW-4

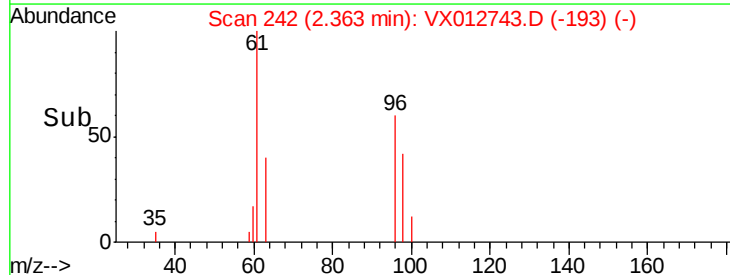
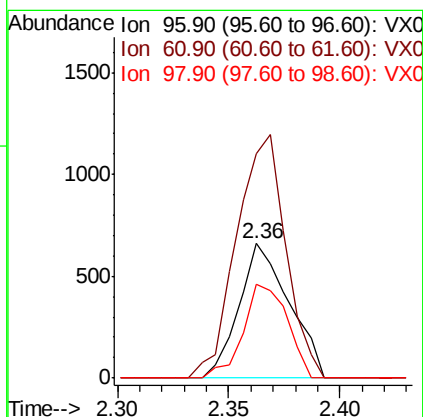
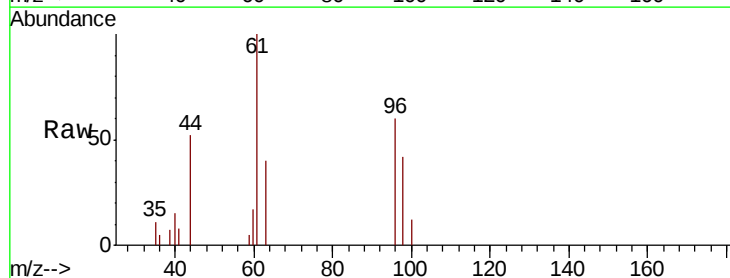
Tot Ion: 59 Resp: 582
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

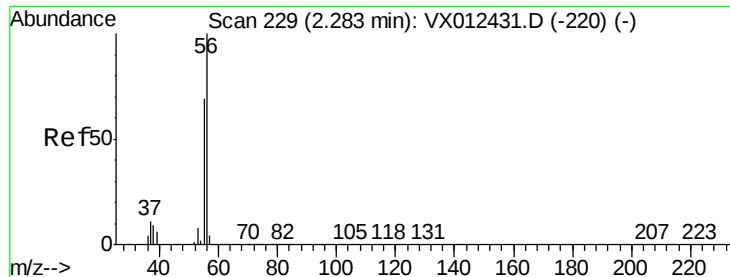


#12

1,1-Dichloroethene
 Concen: 0.588 ug/l
 RT: 2.36 min Scan# 242
 Delta R.T. 0.00 min
 Lab File: VX012743.D
 Acq: 01 Oct 2019 19:08

Tgt Ion: 96 Resp: 1036
 Ion Ratio Lower Upper
 96 100
 61 166.3 133.8 200.6
 98 69.7 49.9 74.9





#13

Acrolein

Concen: 10.441 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX012743.D

Acq: 01 Oct 2019 19:08

Instrument :

MSVOA_X

ClientSampled :

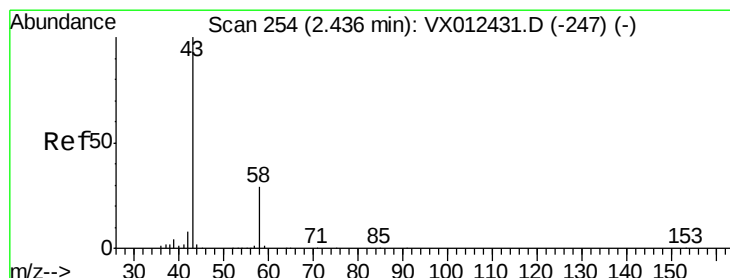
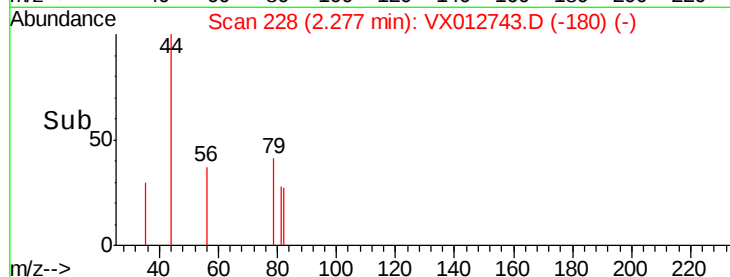
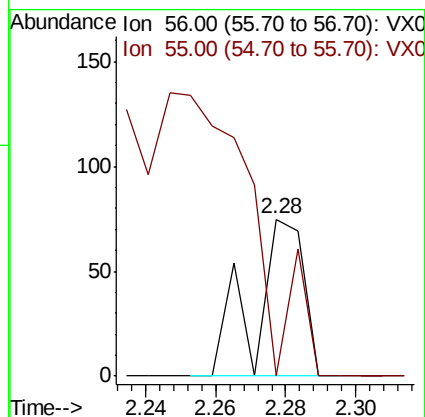
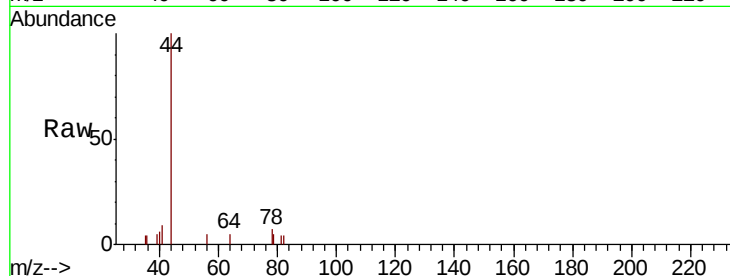
MW-4

Tot Ion: 56 Resp: 72

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.8#



#16

Acetone

Concen: 2.532 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012743.D

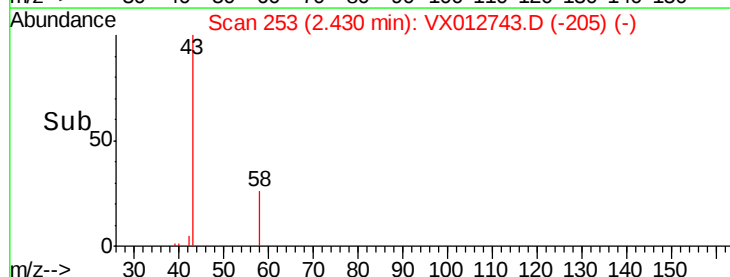
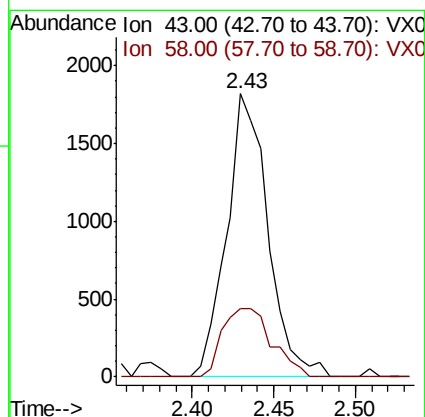
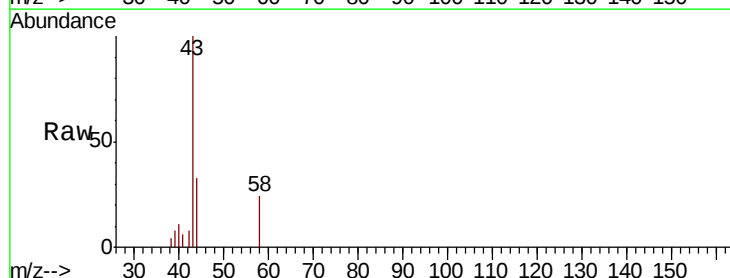
Acq: 01 Oct 2019 19:08

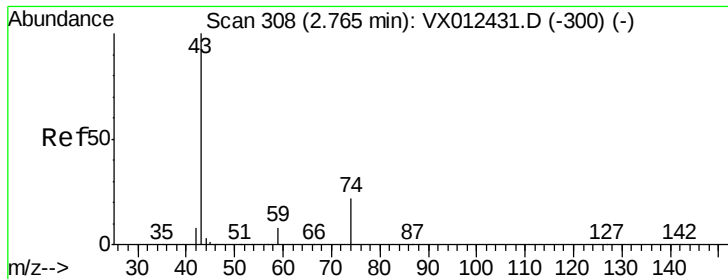
Tgt Ion: 43 Resp: 3201

Ion Ratio Lower Upper

43 100

58 24.0 23.3 34.9

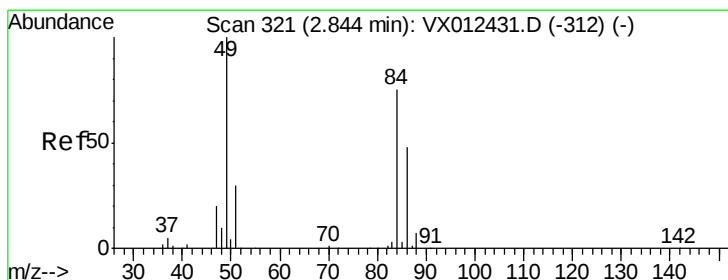
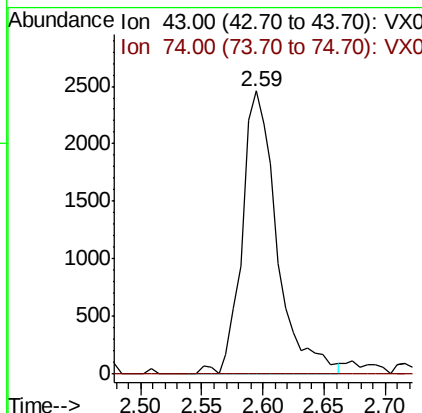
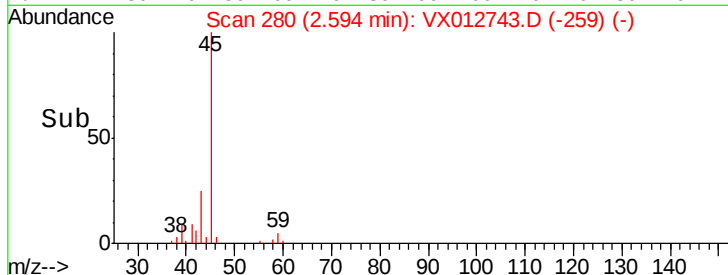
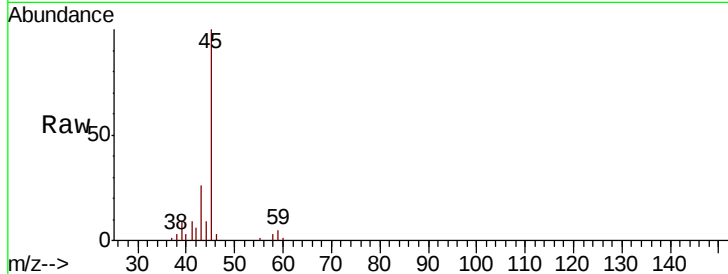




#18
Methvl Acetate
Concen: 1.638 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.17 min
Lab File: VX012743.D
Acq: 01 Oct 2019 19:08

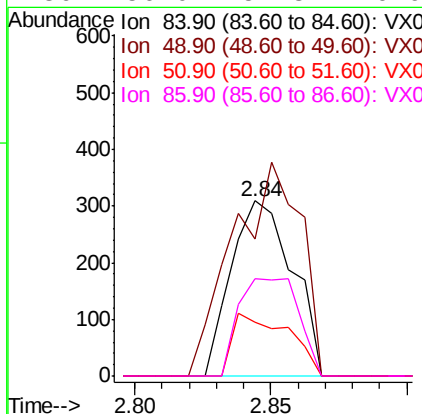
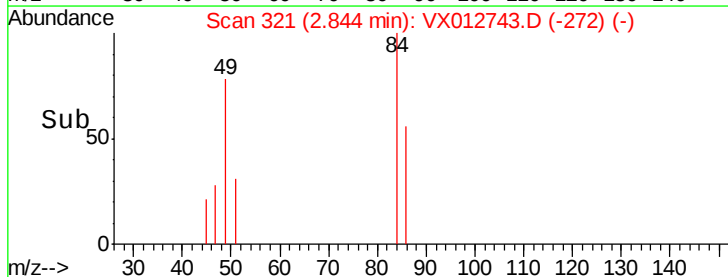
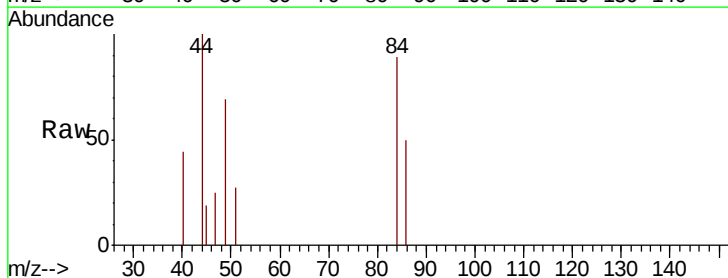
Instrument :
MSVOA_X
ClientSampled :
MW-4

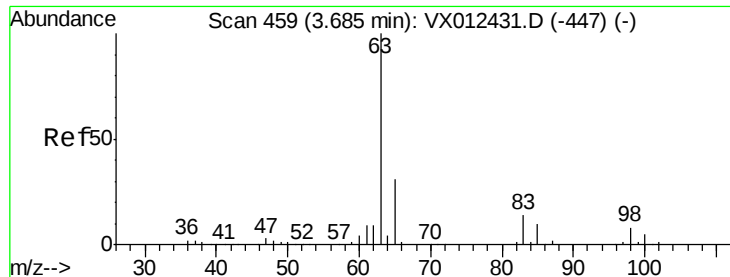
Tot Ion: 43 Resp: 4876
Ion Ratio Lower Upper
43 100
74 0.0 17.7 26.5#



#20
Methylene Chloride
Concen: 0.225 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX012743.D
Acq: 01 Oct 2019 19:08

Tgt Ion: 84 Resp: 482
Ion Ratio Lower Upper
84 100
49 78.0 106.8 160.2#
51 30.7 32.3 48.5#
86 56.0 51.3 76.9





#24

1,1-Dichloroethane

Concen: 0.721 ug/l

RT: 3.69 min Scan# 459

Delta R.T. 0.00 min

Lab File: VX012743.D

Acq: 01 Oct 2019 19:08

Instrument :

MSVOA_X

ClientSampled :

MW-4

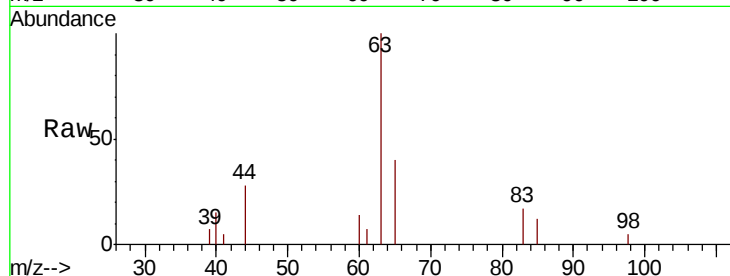
Tot Ion: 63 Resp: 2646

Ion Ratio Lower Upper

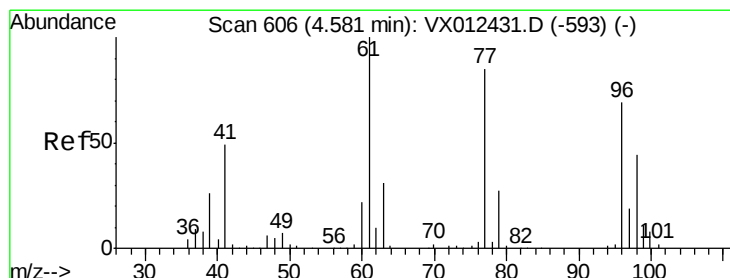
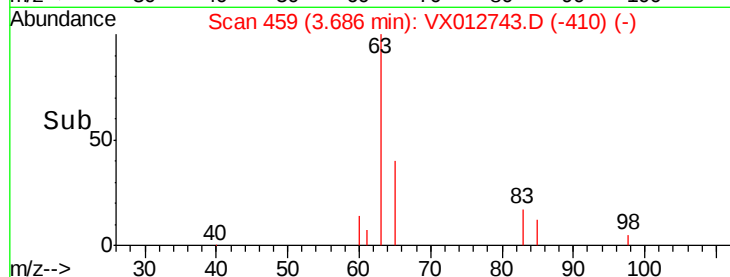
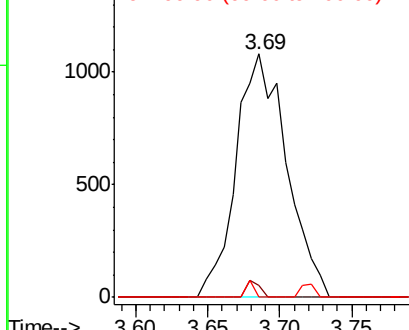
63 100

98 4.9 3.9 11.7

100 0.0 2.3 6.9#



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 0.622 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX012743.D

Acq: 01 Oct 2019 19:08

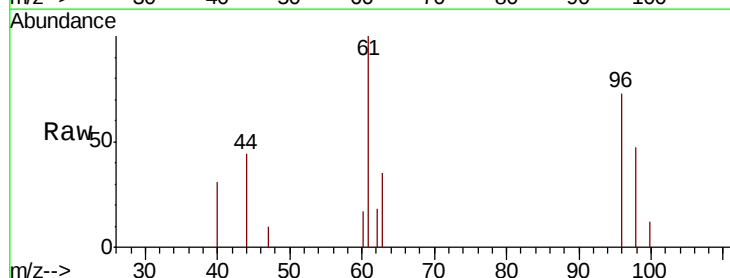
Tgt Ion: 96 Resp: 1409

Ion Ratio Lower Upper

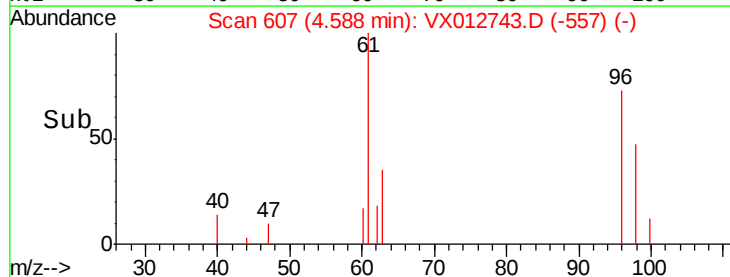
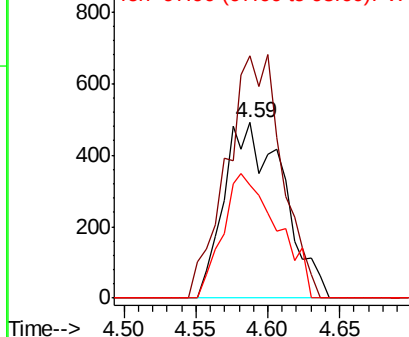
96 100

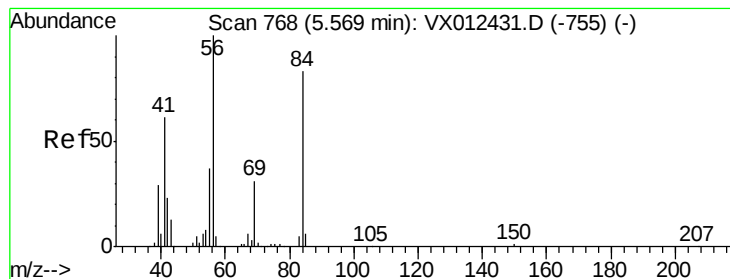
61 128.8 0.0 319.4

98 65.4 0.0 130.6



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





#31

Cyclohexane

Concen: 1.125 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX012743.D

Acq: 01 Oct 2019 19:08

Instrument :

MSVOA_X

ClientSampled :

MW-4

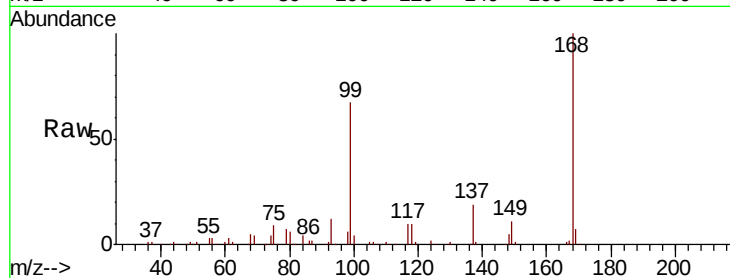
Tot Ion: 56 Resp: 3736

Ion Ratio Lower Upper

56 100

69 135.6 25.0 37.6#

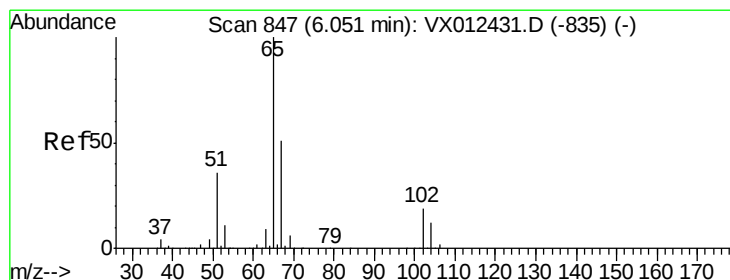
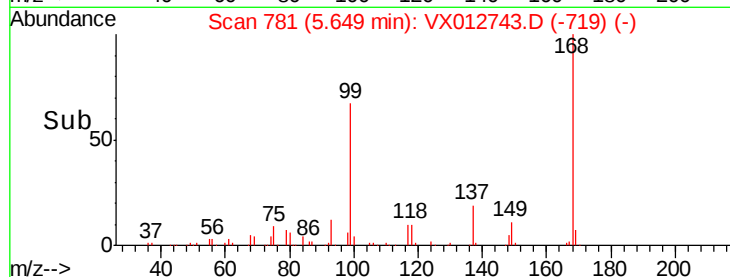
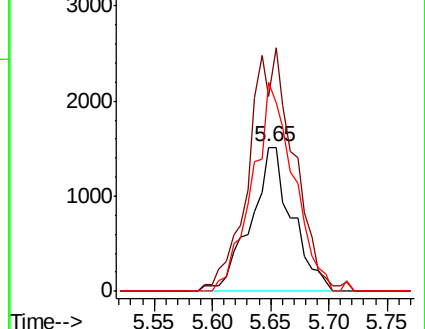
84 144.8 66.4 99.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 50.676 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012743.D

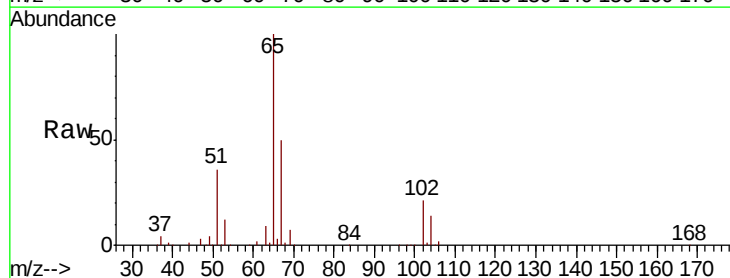
Acq: 01 Oct 2019 19:08

Tgt Ion: 65 Resp: 120932

Ion Ratio Lower Upper

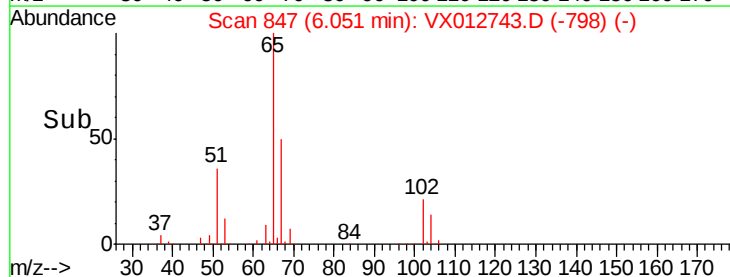
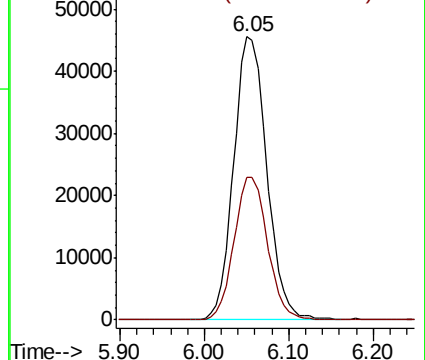
65 100

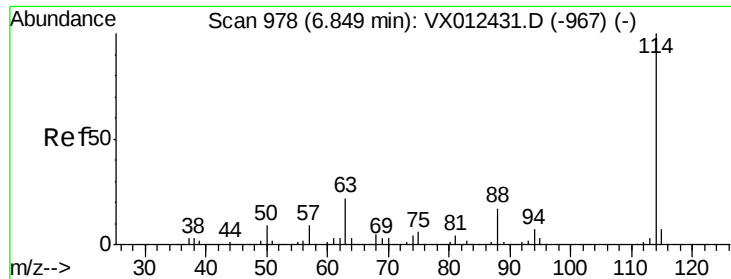
67 50.9 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

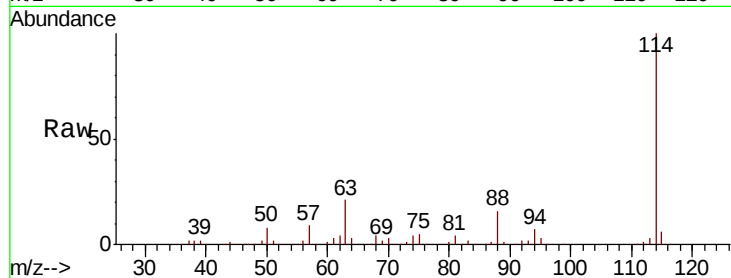




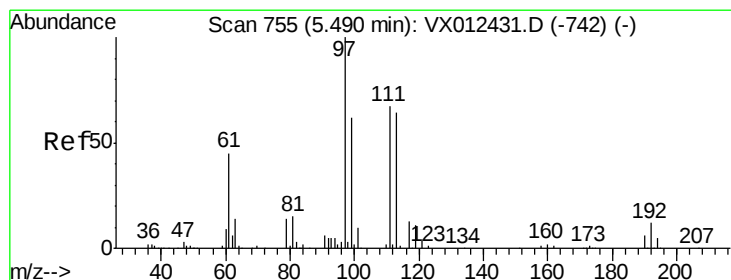
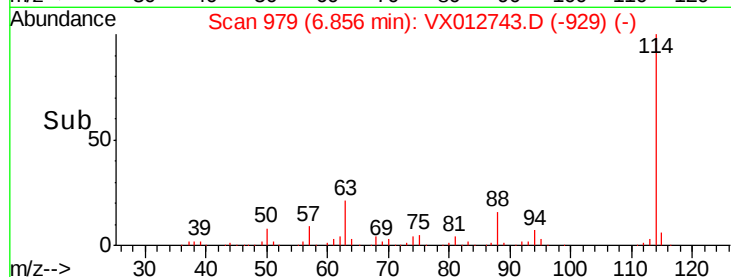
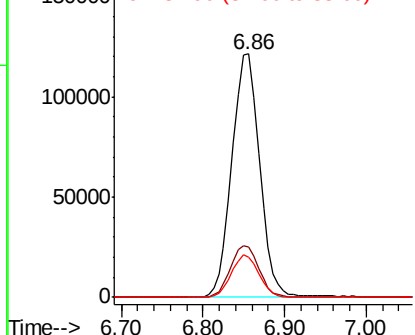
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 979
Delta R.T. 0.01 min
Lab File: VX012743.D
Acq: 01 Oct 2019 19:08

Instrument :
MSVOA_X
ClientSampleId :
MW-4

Tot Ion:114 Resp: 287000
Ion Ratio Lower Upper
114 100
63 20.5 0.0 43.2
88 16.4 0.0 33.2

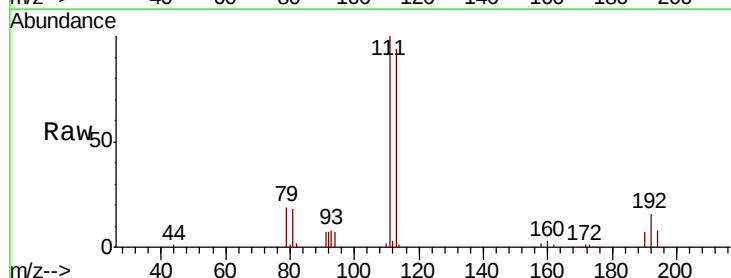


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

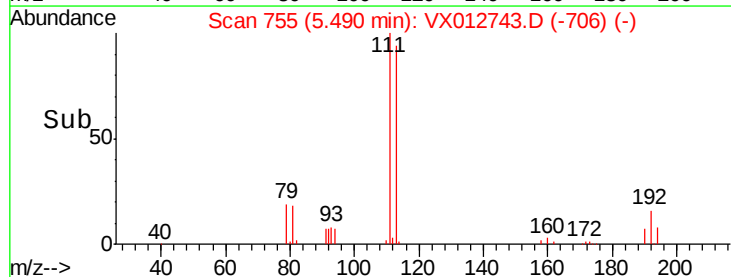
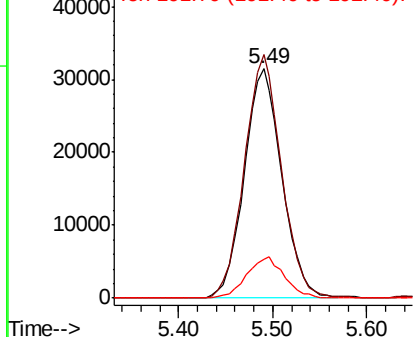


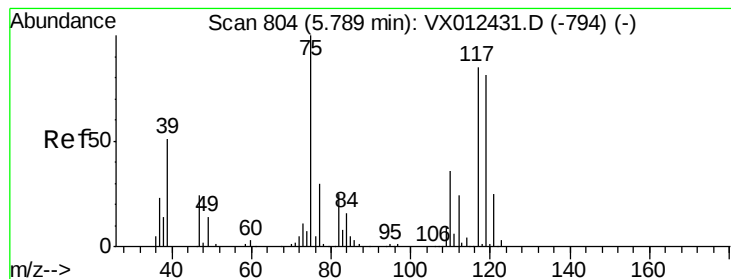
#35
Dibromofluoromethane
Concen: 51.429 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.00 min
Lab File: VX012743.D
Acq: 01 Oct 2019 19:08

Tgt Ion:113 Resp: 87903
Ion Ratio Lower Upper
113 100
111 104.9 83.4 125.2
192 17.9 14.4 21.6



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





#36

1,1-Dichloropropene

Concen: 5.025 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012743.D

Acq: 01 Oct 2019 19:08

Instrument :

MSVOA_X

ClientSampleId :

MW-4

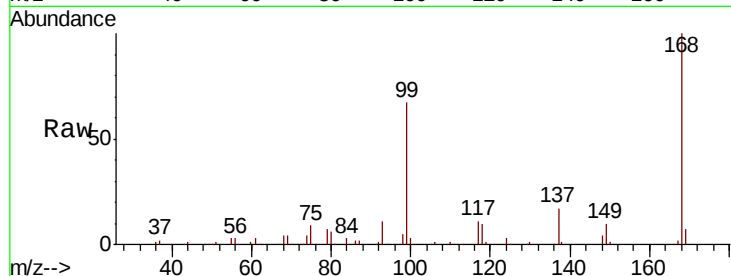
Tot Ion: 75 Resp: 13901

Ion Ratio Lower Upper

75 100

110 9.1 16.7 50.0#

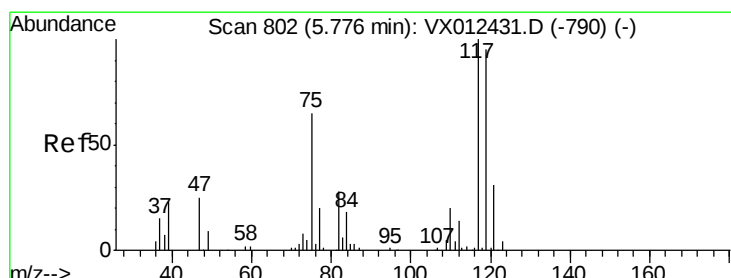
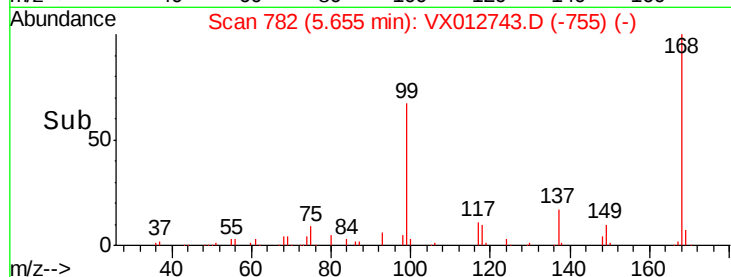
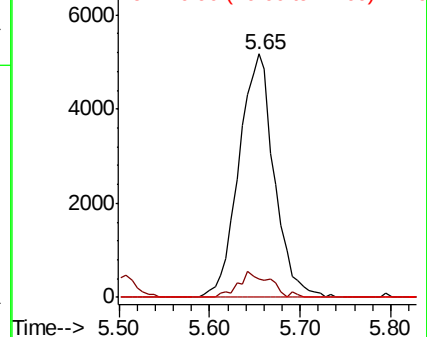
77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VX012743.D (-755) (-)

Ion 109.90 (109.60 to 110.60): VX012743.D (-755) (-)

Ion 76.90 (76.60 to 77.60): VX012743.D (-755) (-)



#38

Carbon Tetrachloride

Concen: 6.165 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012743.D

Acq: 01 Oct 2019 19:08

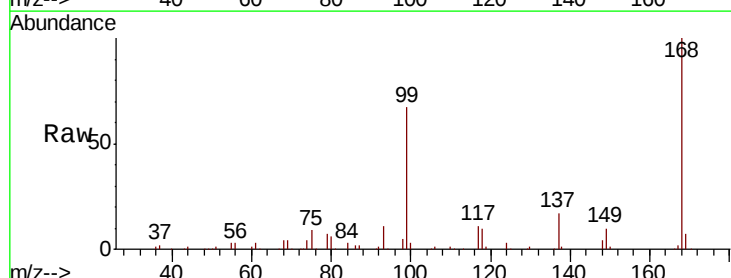
Tgt Ion: 117 Resp: 17325

Ion Ratio Lower Upper

117 100

119 5.1 75.7 113.5#

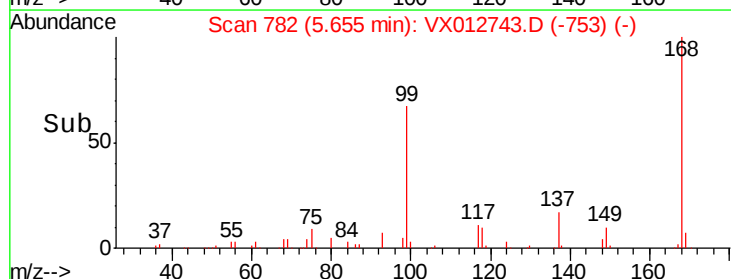
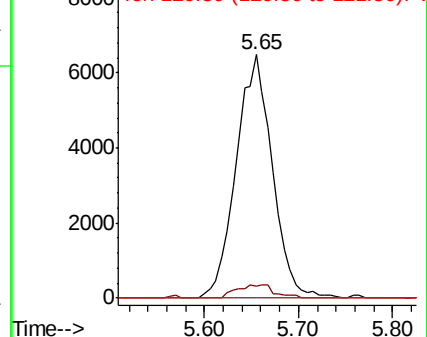
121 0.0 24.2 36.4#

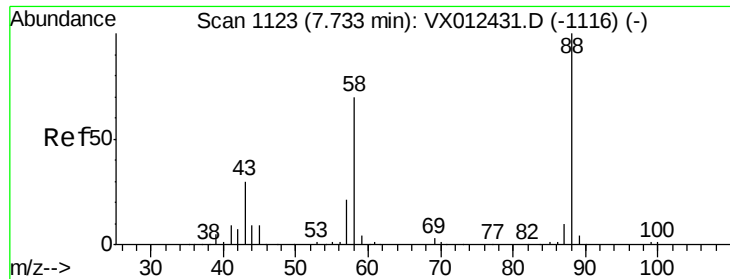


Abundance Ion 116.80 (116.50 to 117.50): VX012743.D (-753) (-)

Ion 118.80 (118.50 to 119.50): VX012743.D (-753) (-)

Ion 120.80 (120.50 to 121.50): VX012743.D (-753) (-)





#49

1,4-Dioxane

Concen: 20.893 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX012743.D

Acq: 01 Oct 2019 19:08

Instrument :

MSVOA_X

ClientSampleId :

MW-4

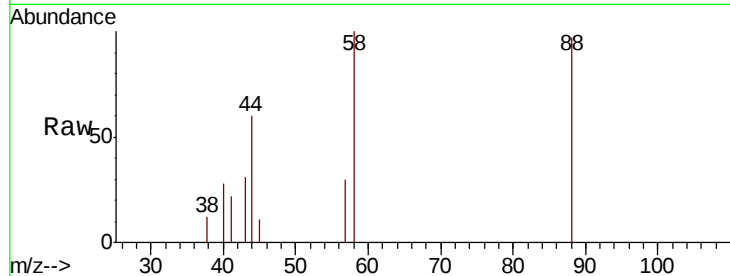
Tot Ion: 88 Resp: 1229

Ion Ratio Lower Upper

88 100

43 19.0 29.4 44.0#

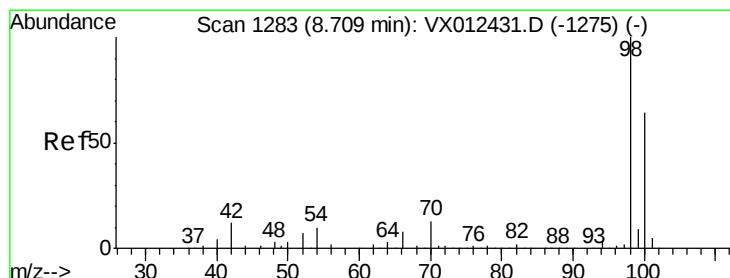
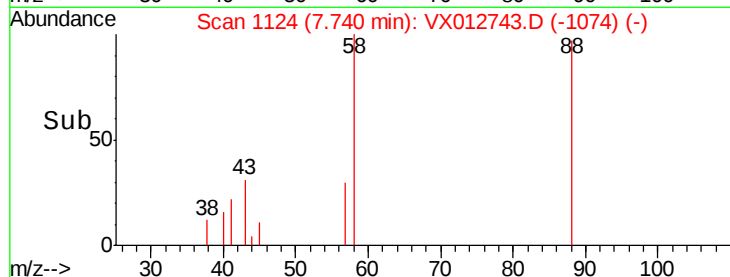
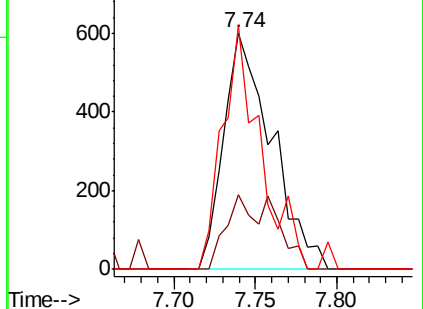
58 81.1 57.5 86.3



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: 52.136 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012743.D

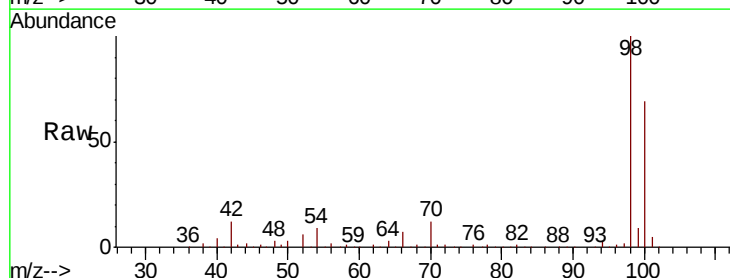
Acq: 01 Oct 2019 19:08

Tgt Ion: 98 Resp: 343172

Ion Ratio Lower Upper

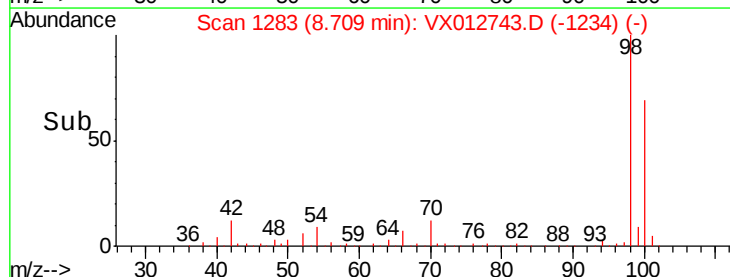
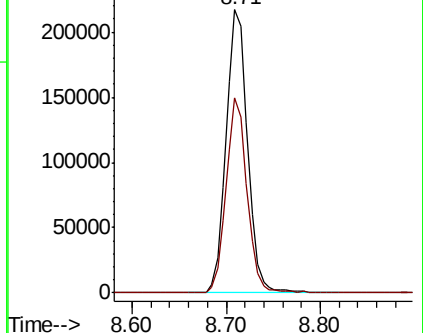
98 100

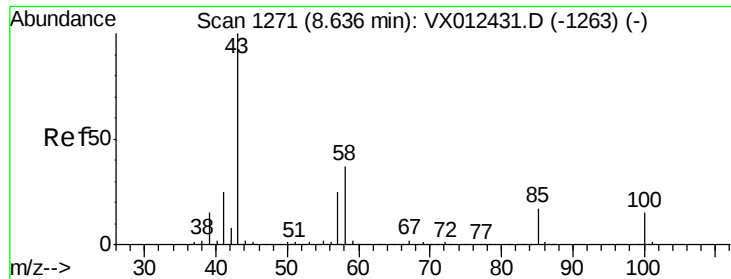
100 67.3 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.578 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX012743.D

Acq: 01 Oct 2019 19:08

Instrument :

MSVOA_X

ClientSampleId :

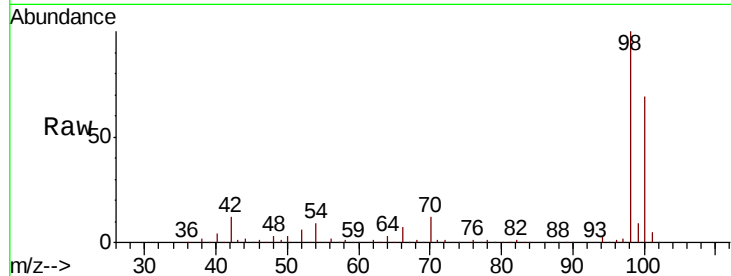
MW-4

Tot Ion: 43 Resp: 1929

Ion Ratio Lower Upper

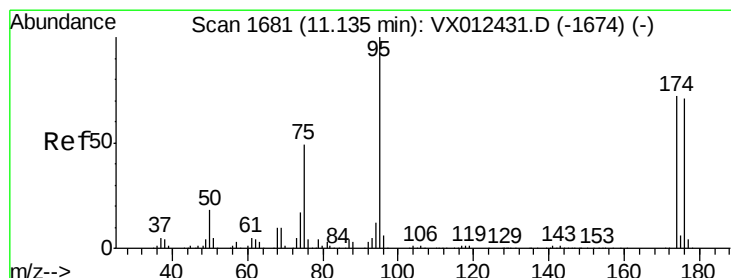
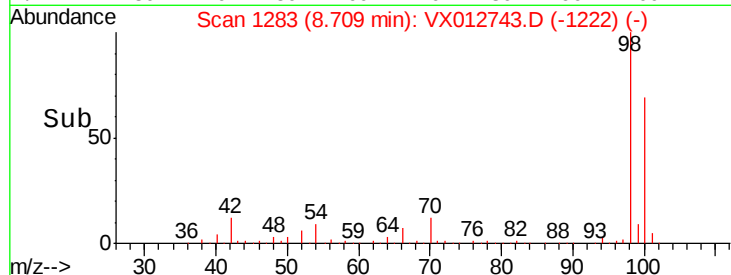
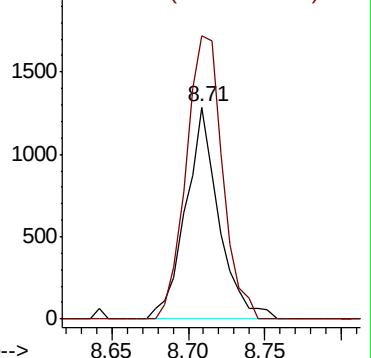
43 100

58 147.0 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 45.019 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012743.D

Acq: 01 Oct 2019 19:08

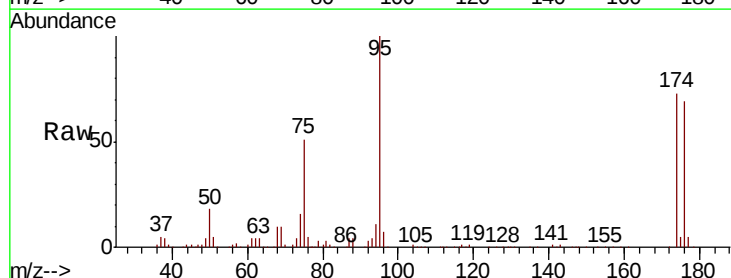
Tgt Ion: 95 Resp: 116517

Ion Ratio Lower Upper

95 100

174 68.0 0.0 140.0

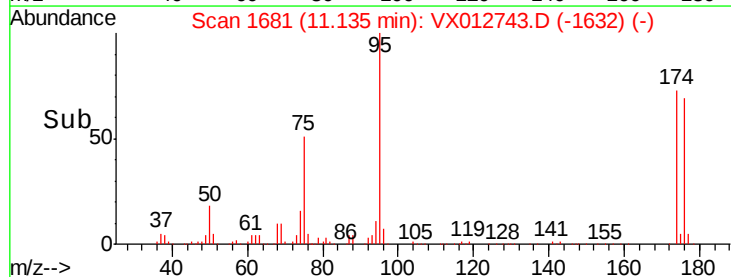
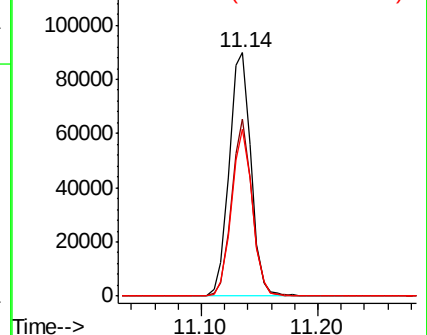
176 65.8 0.0 135.4

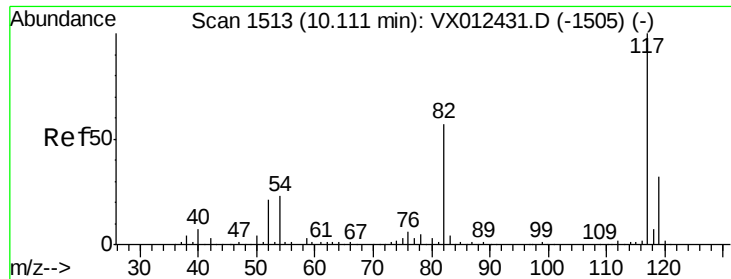


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

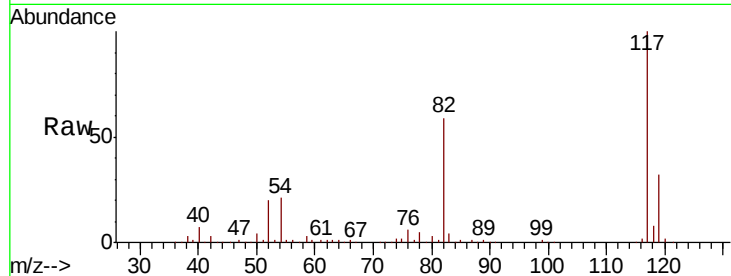




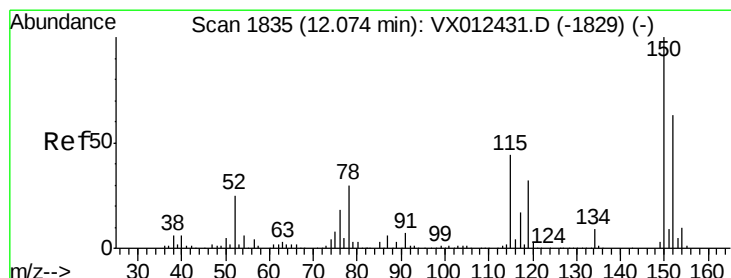
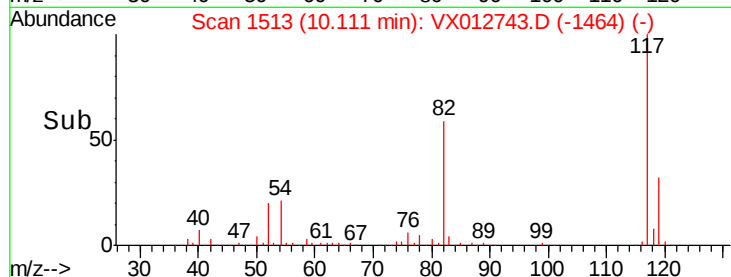
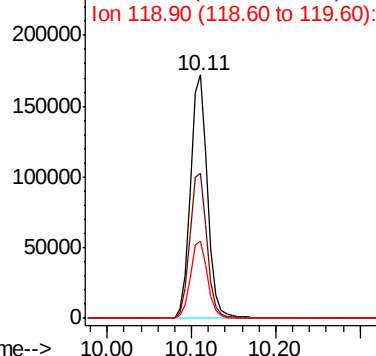
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012743.D
Acq: 01 Oct 2019 19:08

Instrument :
MSVOA_X
ClientSampled :
MW-4

Tot Ion:117 Resp: 240857
Ion Ratio Lower Upper
117 100
82 59.4 45.9 68.9
119 31.8 25.3 37.9

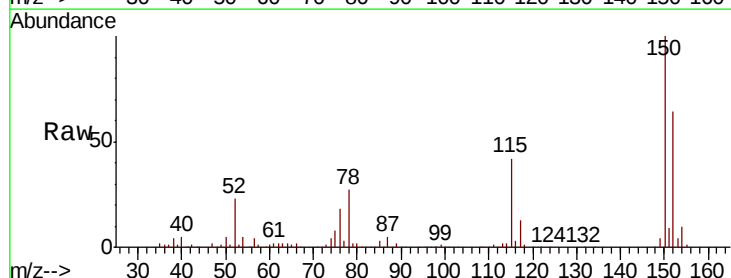


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

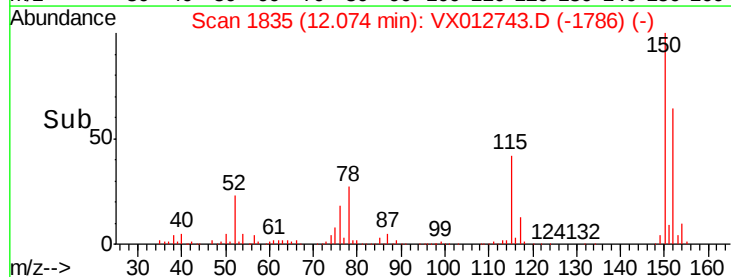
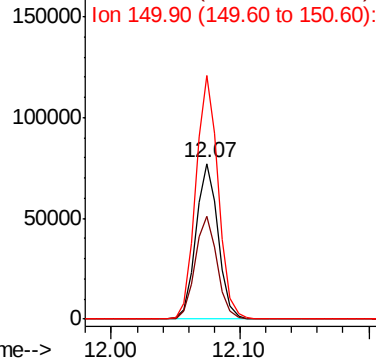


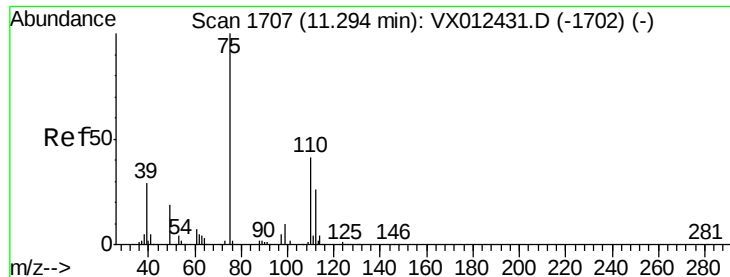
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012743.D
Acq: 01 Oct 2019 19:08

Tgt Ion:152 Resp: 93696
Ion Ratio Lower Upper
152 100
115 65.8 44.1 132.3
150 158.0 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: 23.786 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012743.D

Acq: 01 Oct 2019 19:08

Instrument :

MSVOA_X

ClientSampled :

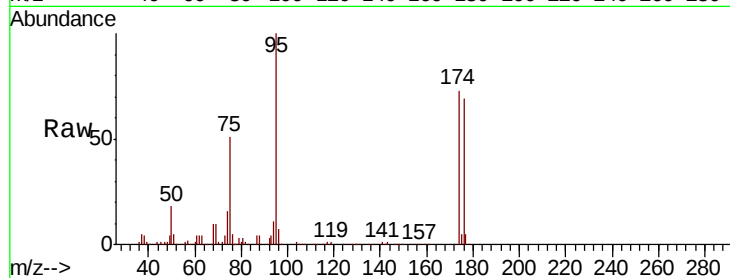
MW-4

Tot Ion: 75 Resp: 58953

Ion Ratio Lower Upper

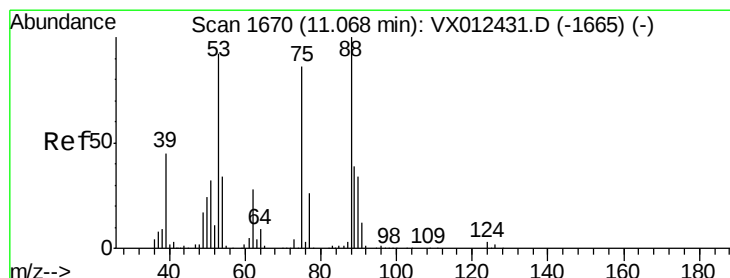
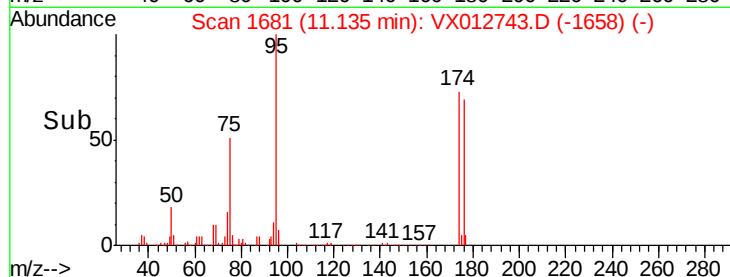
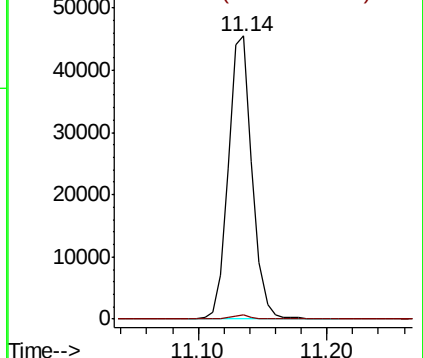
75 100

77 1.2 19.7 59.0#



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: 68.165 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012743.D

Acq: 01 Oct 2019 19:08

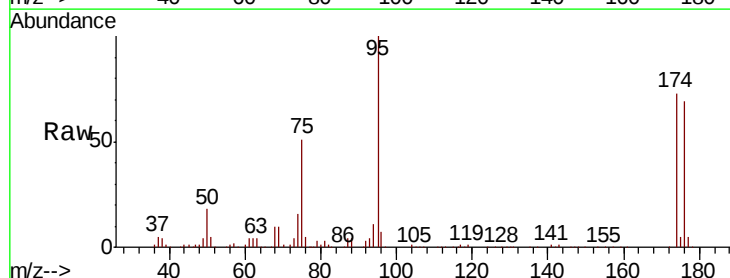
Tgt Ion: 75 Resp: 58953

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#



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

