

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082019\
 Data File : VX011716.D
 Acq On : 21 Aug 2019 04:20
 Operator : JC/SP
 Sample : K4388-21
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T4-B3-(0)

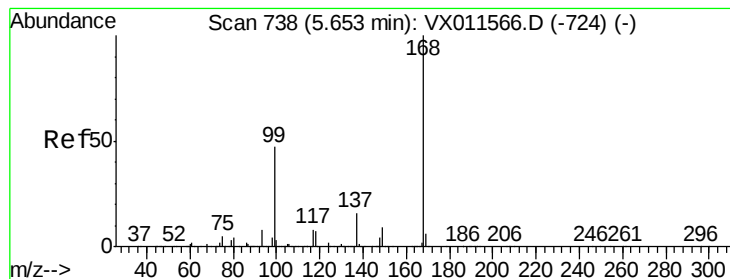
Quant Time: Aug 21 05:32:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081519W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 16 04:15:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	323924	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	512194	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	455877	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	228287	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	183159	60.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	121.94%	
35) Dibromofluoromethane	5.49	113	145462	43.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.84%	
50) Toluene-d8	8.71	98	575814	55.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.32%	
62) 4-Bromofluorobenzene	11.13	95	212791	48.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	274	0.205	ug/l #	3
8) Diethyl Ether	2.15	74	427	0.301	ug/l	85
11) Tert butyl alcohol	3.01	59	7403	10.045	ug/l	95
13) Acrolein	2.29	56	420	13.946	ug/l #	15
16) Acetone	2.43	43	7460	4.939	ug/l	97
18) Methyl Acetate	2.76	43	5191	1.108	ug/l	97
20) Methylene Chloride	2.85	84	3147	0.992	ug/l #	79
25) 2-Butanone	4.67	43	693	0.292	ug/l	91
29) Tetrahydrofuran	5.12	42	483	0.311	ug/l #	72
36) 1,1-Dichloropropene	5.65	75	20485	4.678	ug/l #	56
38) Carbon Tetrachloride	5.65	117	30021	6.222	ug/l #	15
43) Isopropyl Acetate	6.44	43	58338	7.421	ug/l	99
48) Methyl methacrylate	7.67	41	3335	0.857	ug/l #	18
49) 1,4-Dioxane	7.76	88	552	5.331	ug/l #	81
51) 4-Methyl-2-Pentanone	8.61	43	53711	10.439	ug/l #	46
54) cis-1,3-Dichloropropene	8.61	75	25407	4.940	ug/l #	68
59) 2-Hexanone	9.54	43	67209	16.939	ug/l #	51
71) Bromoform	10.77	173	112	3.321	ug/l #	28
74) N-amyl acetate	10.82	43	2566	0.408	ug/l #	56
76) 1,2,3-Trichloropropane	11.13	75	100107	23.126	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	100107	61.511	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011716.D

Acq: 21 Aug 2019 04:20

Instrument :

MSVOA_X

ClientSampled :

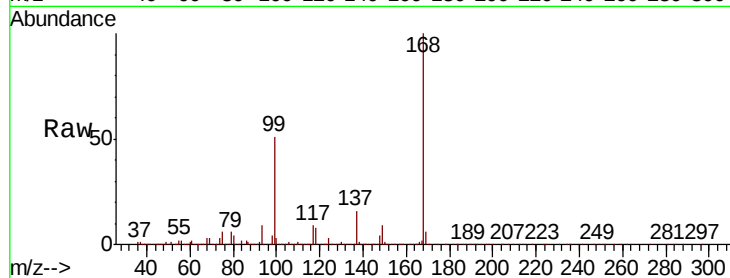
T4-B3-(0)

Tgt Ion:168 Resp: 323924

Ion Ratio Lower Upper

168 100

99 51.1 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

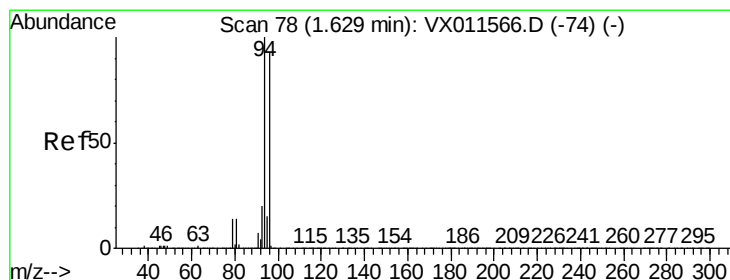
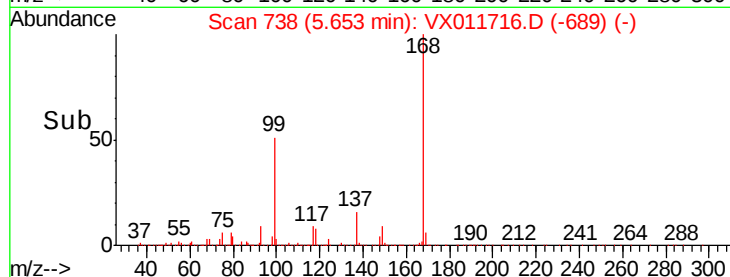
5.65

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.205 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.01 min

Lab File: VX011716.D

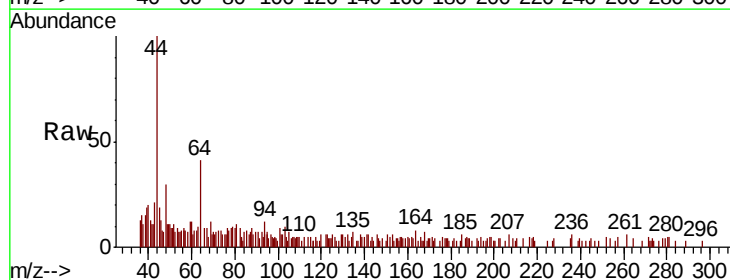
Acq: 21 Aug 2019 04:20

Tgt Ion: 94 Resp: 274

Ion Ratio Lower Upper

94 100

96 0.0 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

400

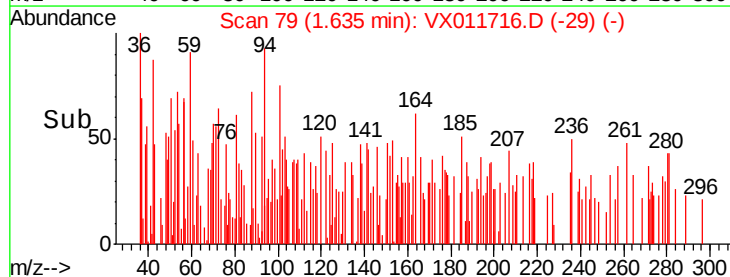
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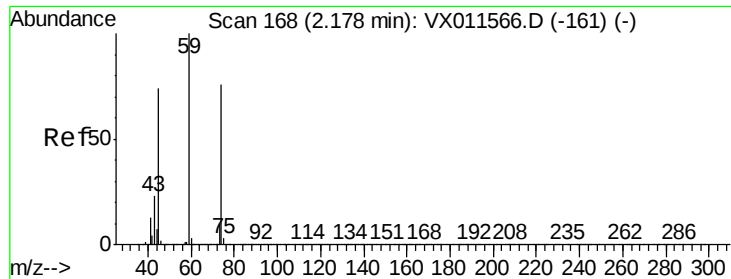
200

100

0

Time-->

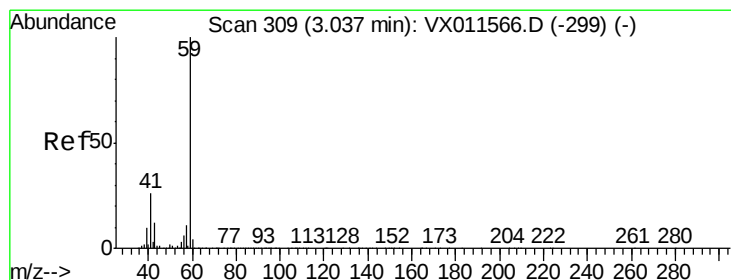
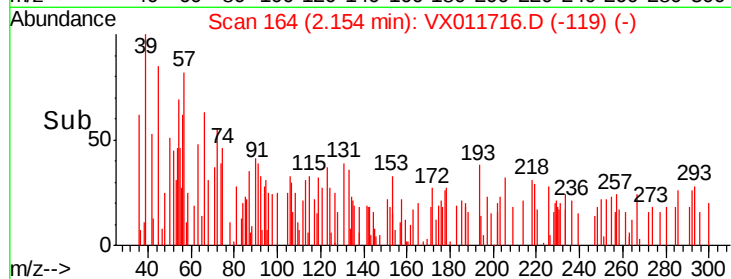
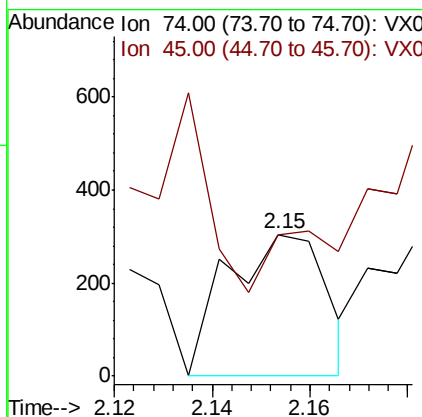
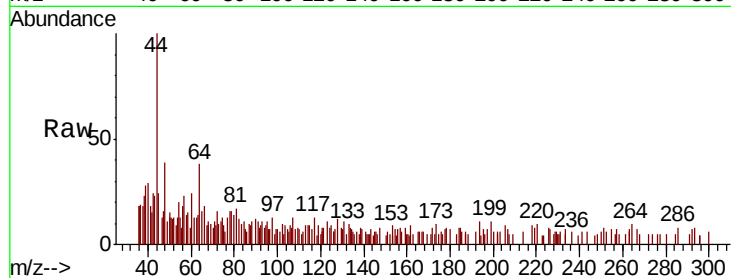




#8
Diethyl Ether
Concen: 0.301 ug/l
RT: 2.15 min Scan# 164
Delta R.T. -0.02 min
Lab File: VX011716.D
Acq: 21 Aug 2019 04:20

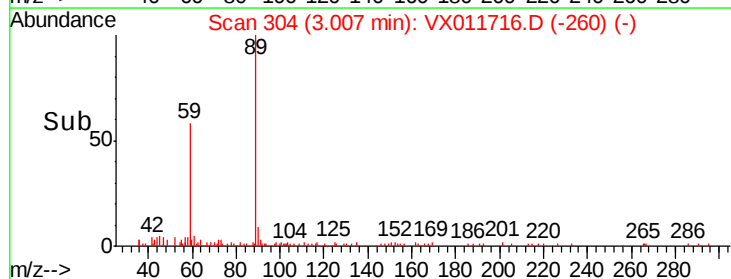
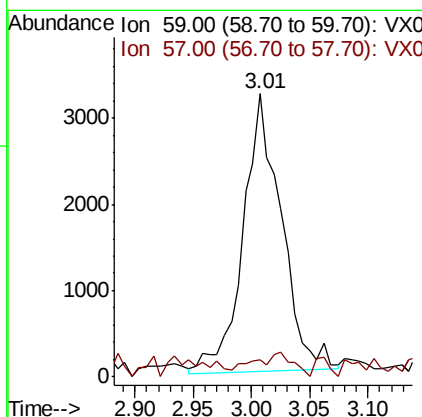
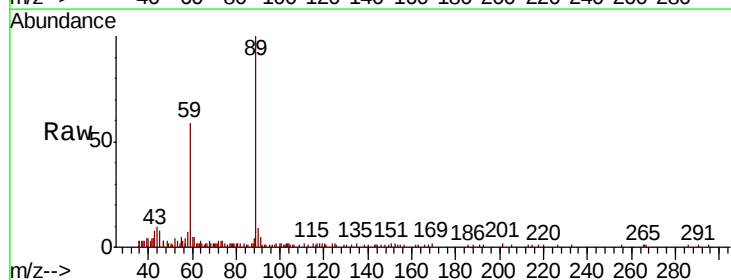
Instrument :
MSVOA_X
ClientSampled :
T4-B3-(0)

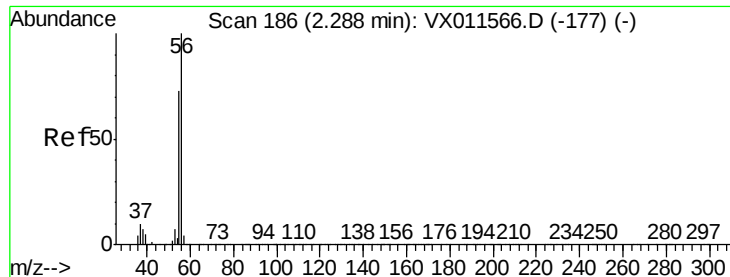
Tgt Ion: 74 Resp: 427
Ion Ratio Lower Upper
74 100
45 81.3 48.2 144.6



#11
Tert butyl alcohol
Concen: 10.045 ug/l
RT: 3.01 min Scan# 304
Delta R.T. -0.03 min
Lab File: VX011716.D
Acq: 21 Aug 2019 04:20

Tgt Ion: 59 Resp: 7403
Ion Ratio Lower Upper
59 100
57 9.0 8.7 13.1





#13

Acrolein

Concen: 13.946 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX011716.D

Acq: 21 Aug 2019 04:20

Instrument :

MSVOA_X

ClientSampled :

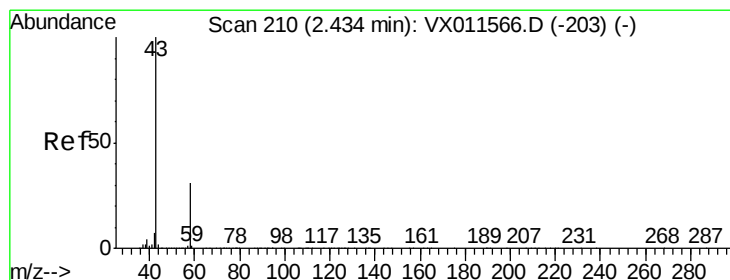
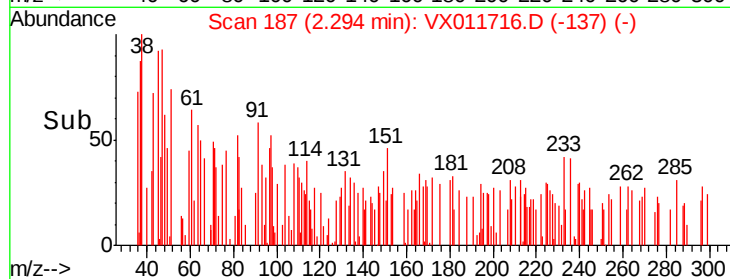
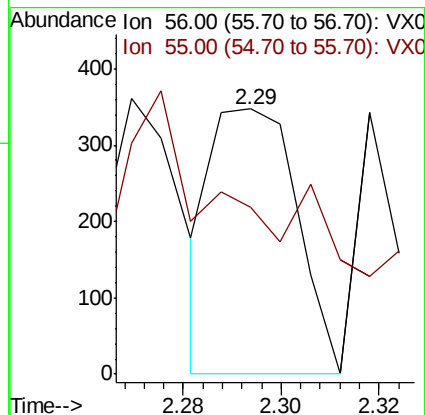
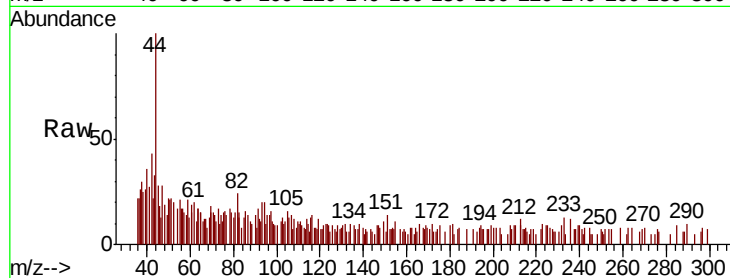
T4-B3-(0)

Tgt Ion: 56 Resp: 420

Ion Ratio Lower Upper

56 100

55 0.0 55.5 83.3#



#16

Acetone

Concen: 4.939 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011716.D

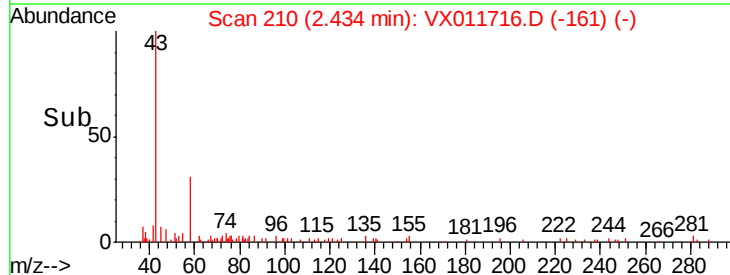
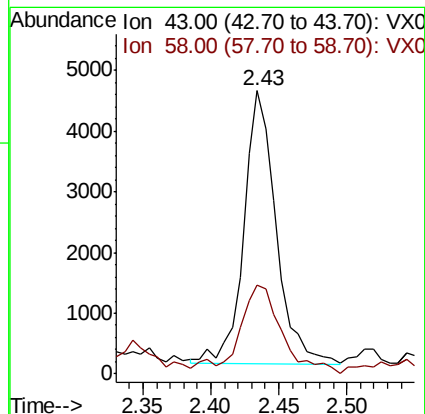
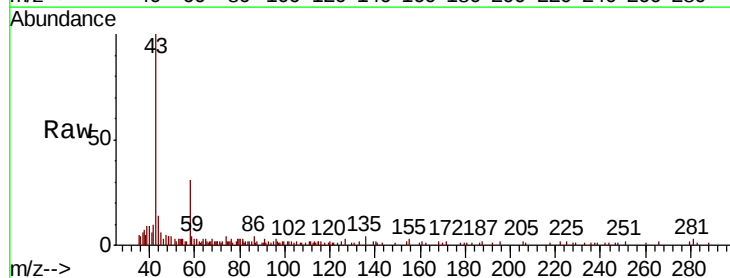
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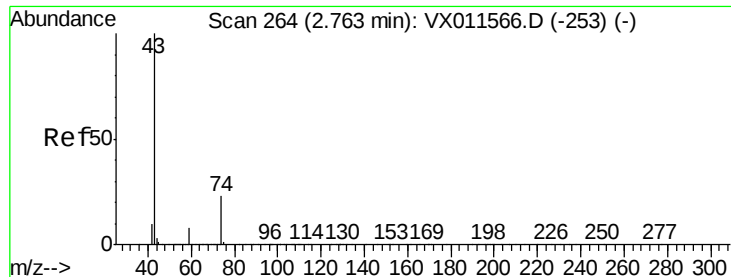
Tgt Ion: 43 Resp: 7460

Ion Ratio Lower Upper

43 100

58 29.7 25.2 37.8

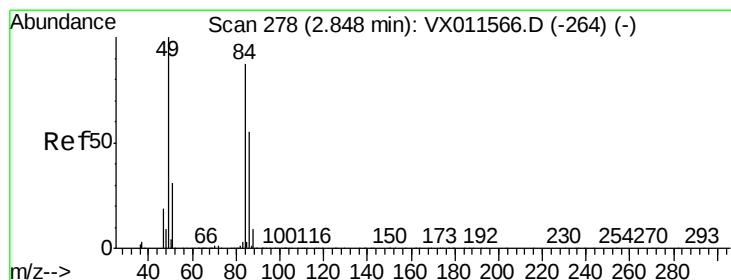
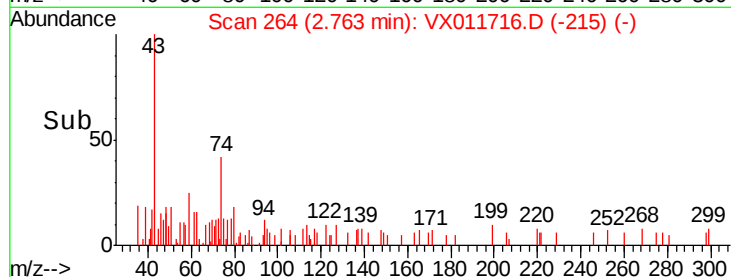
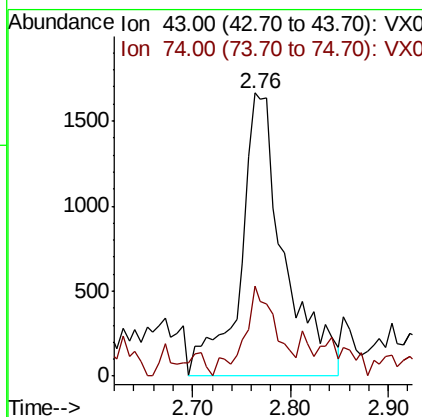
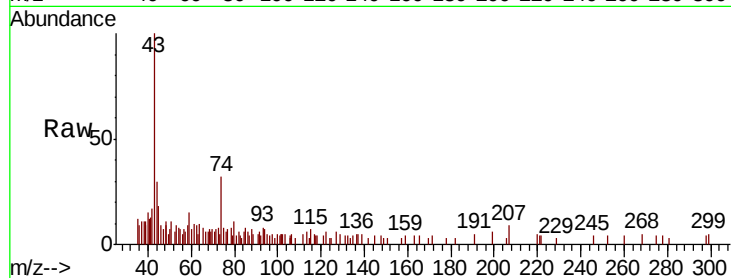




#18
Methyl Acetate
Concen: 1.108 ug/l
RT: 2.76 min Scan# 264
Delta R.T. 0.00 min
Lab File: VX011716.D
Acq: 21 Aug 2019 04:20

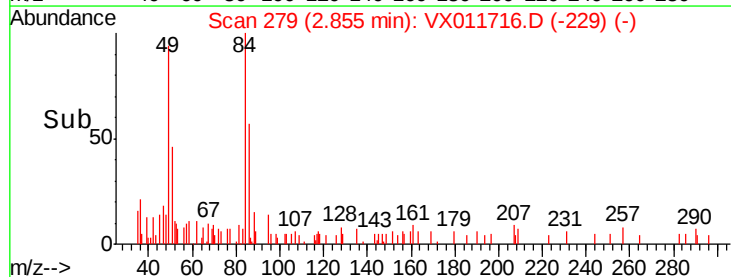
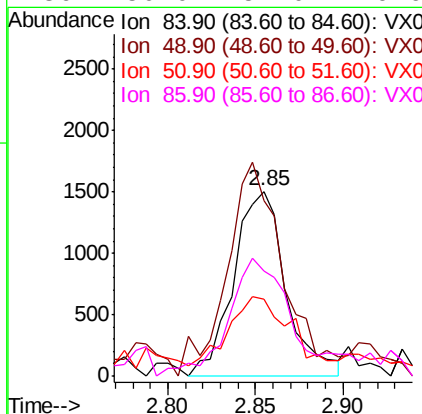
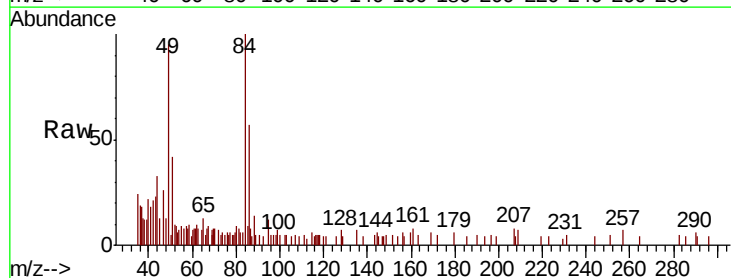
Instrument :
MSVOA_X
ClientSampleId :
T4-B3-(0)

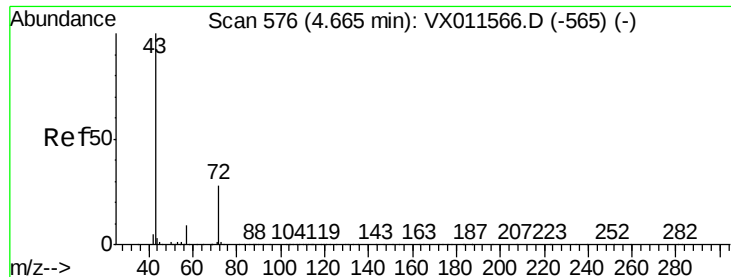
Tgt Ion: 43 Resp: 5191
Ion Ratio Lower Upper
43 100
74 23.3 19.7 29.5



#20
Methylene Chloride
Concen: 0.992 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX011716.D
Acq: 21 Aug 2019 04:20

Tgt Ion: 84 Resp: 3147
Ion Ratio Lower Upper
84 100
49 83.9 92.4 138.6#
51 36.4 28.5 42.7
86 50.0 51.0 76.6#

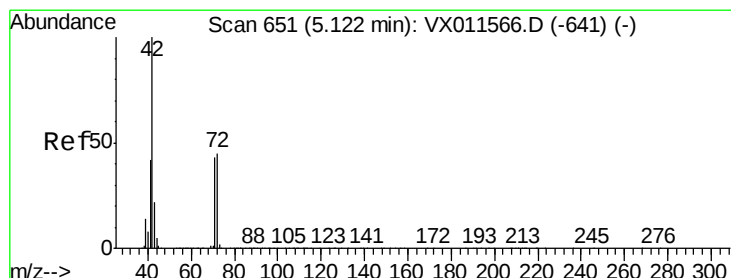
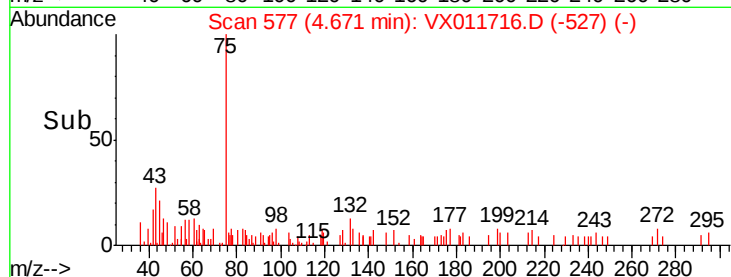
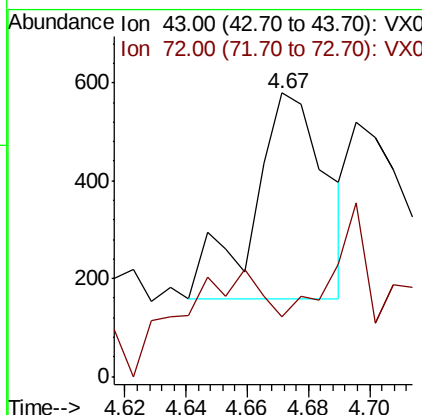
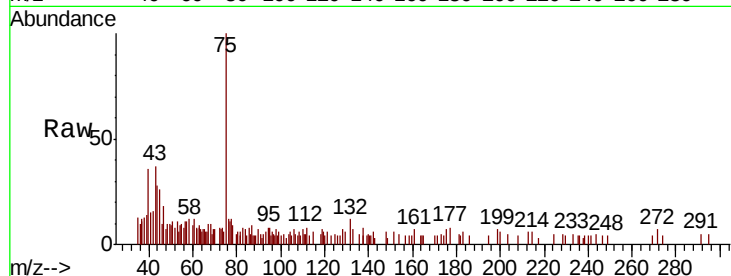




#25
2-Butanone
Concen: 0.292 ug/l
RT: 4.67 min Scan# 577
Delta R.T. 0.01 min
Lab File: VX011716.D
Acq: 21 Aug 2019 04:20

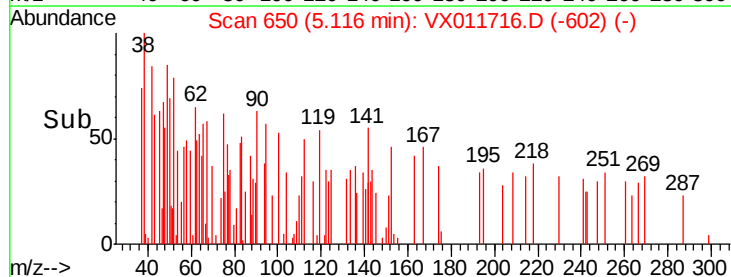
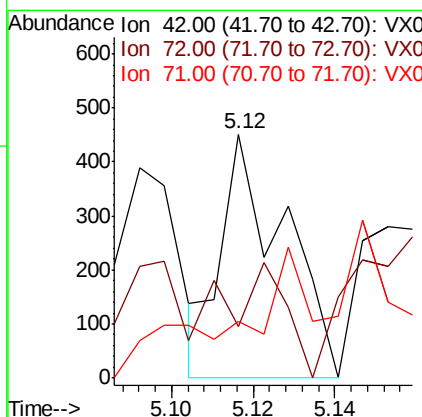
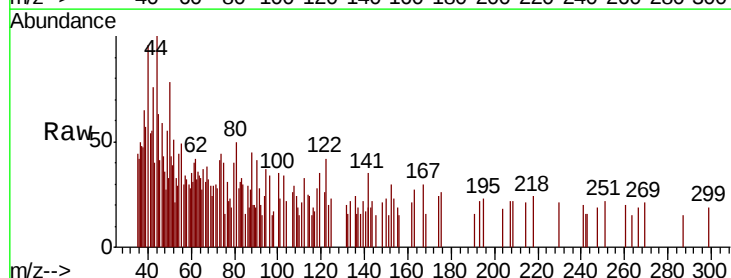
Instrument :
MSVOA_X
ClientSampleId :
T4-B3-(0)

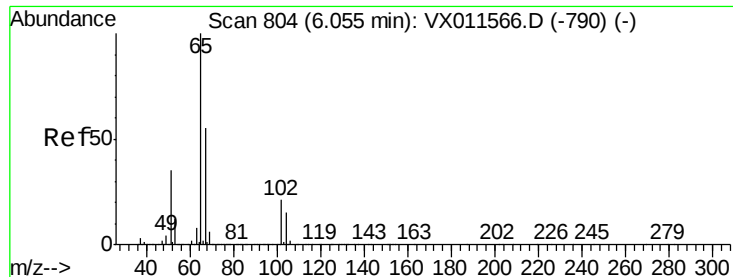
Tgt Ion: 43 Resp: 693
Ion Ratio Lower Upper
43 100
72 23.3 22.2 33.4



#29
Tetrahydrofuran
Concen: 0.311 ug/l
RT: 5.12 min Scan# 650
Delta R.T. -0.01 min
Lab File: VX011716.D
Acq: 21 Aug 2019 04:20

Tgt Ion: 42 Resp: 483
Ion Ratio Lower Upper
42 100
72 26.1 36.1 54.1#
71 25.5 33.8 50.8#

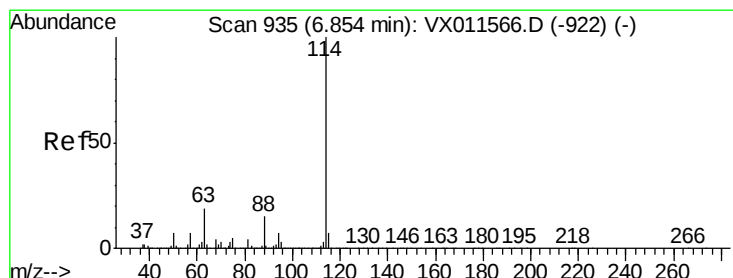
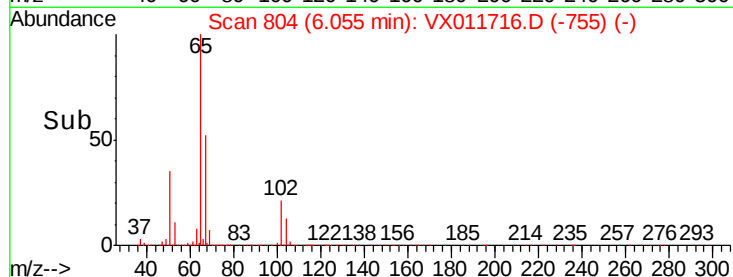
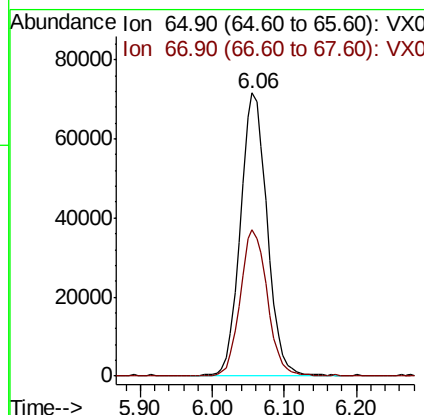
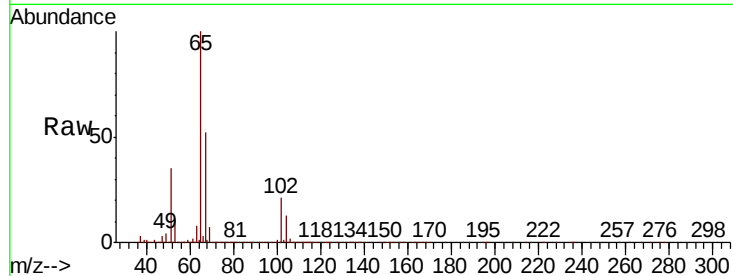




#33
 1,2-Dichloroethane-d4
 Concen: 60.973 ug/l
 RT: 6.06 min Scan# 804
 Delta R.T. 0.00 min
 Lab File: VX011716.D
 Acq: 21 Aug 2019 04:20

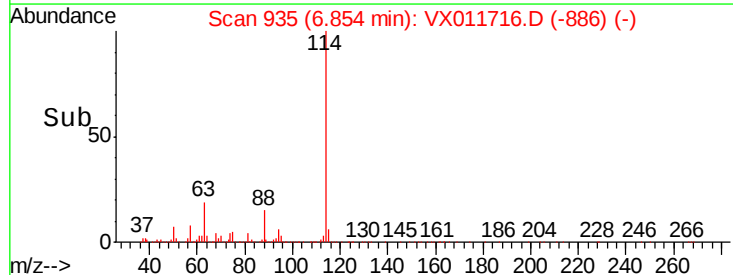
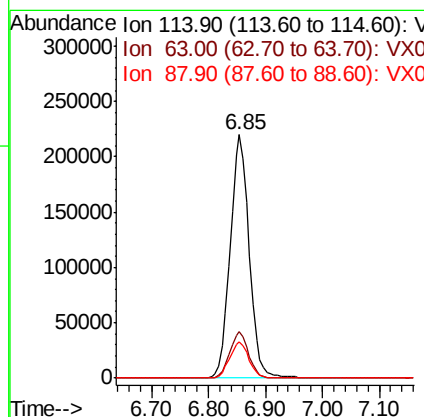
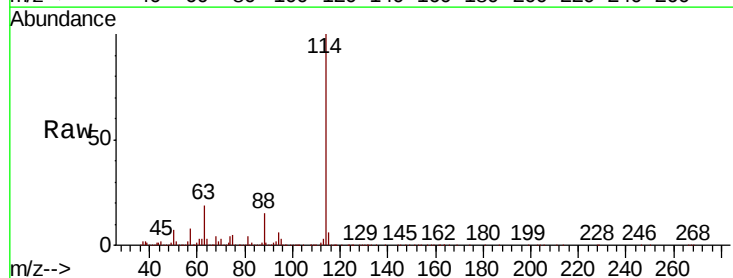
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 MSVOA_X
 ClientSampleId :
 T4-B3-(0)

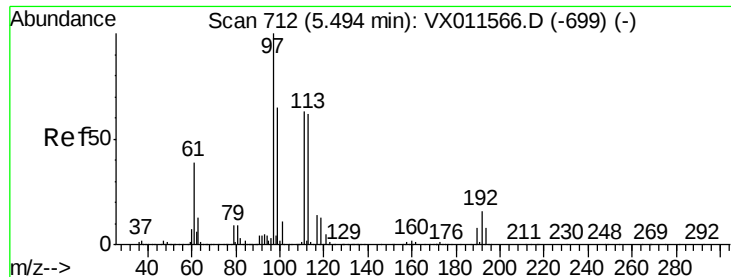
Tgt Ion: 65 Resp: 183159
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX011716.D
 Acq: 21 Aug 2019 04:20

Tgt Ion: 114 Resp: 512194
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 37.8
 88 14.7 0.0 30.2

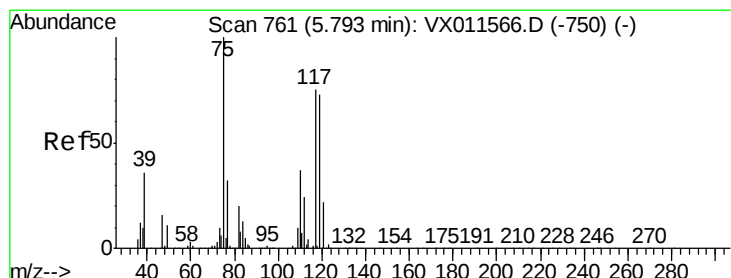
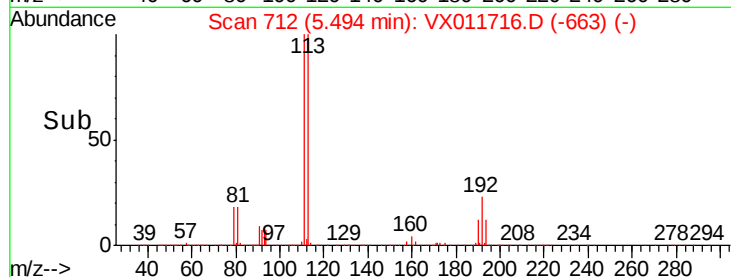
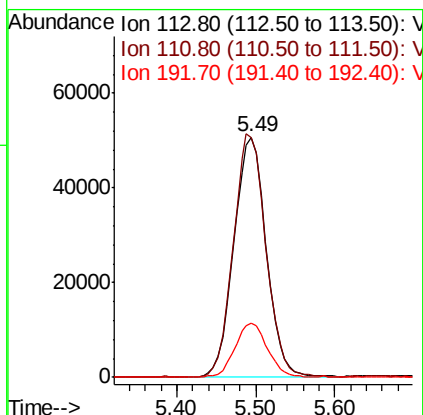
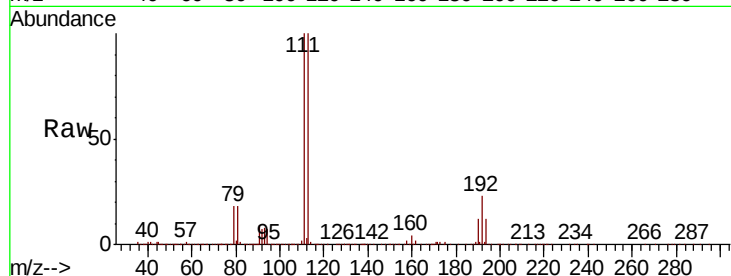




#35
 Dibromofluoromethane
 Concen: 43.421 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. 0.00 min
 Lab File: VX011716.D
 Acq: 21 Aug 2019 04:20

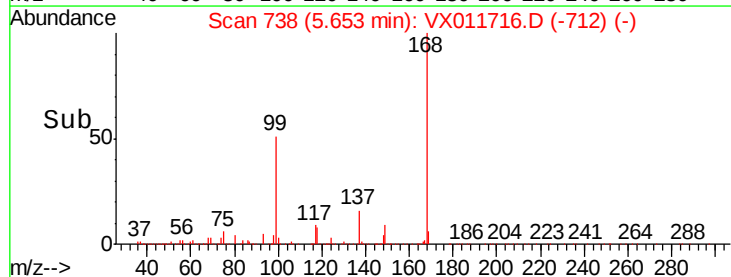
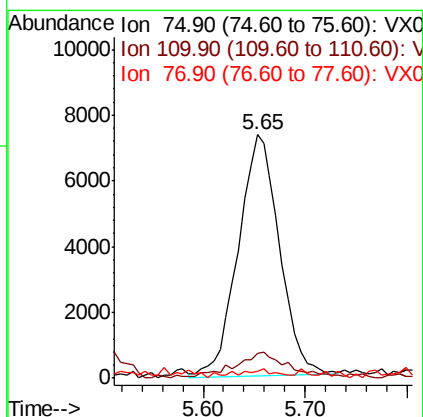
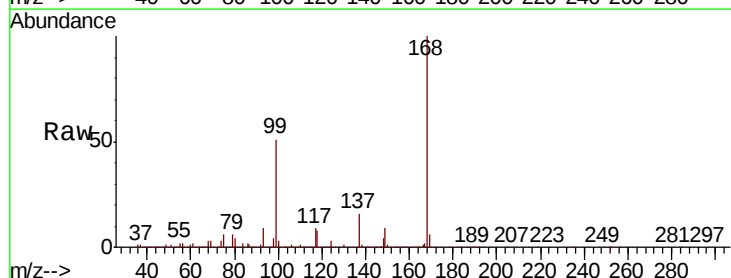
Instrument :
 MSVOA_X
 ClientSampleId :
 T4-B3-(0)

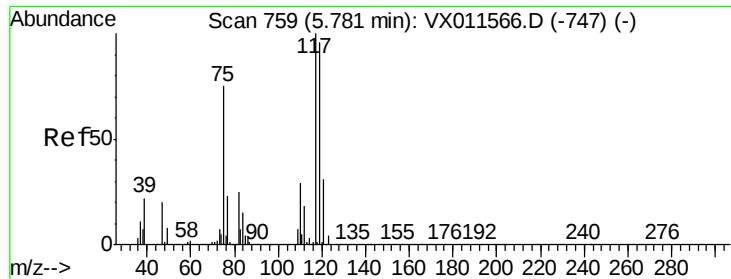
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.6	81.1	121.7
192	22.7	20.8	31.2



#36
 1,1-Dichloropropene
 Concen: 4.678 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.14 min
 Lab File: VX011716.D
 Acq: 21 Aug 2019 04:20

Tgt Ion	Ratio	Lower	Upper
75	100		
110	14.6	19.4	58.1#
77	3.8	25.1	37.7#





#38

Carbon Tetrachloride

Concen: 6.222 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011716.D

Acq: 21 Aug 2019 04:20

Instrument :

MSVOA_X

ClientSampled :

T4-B3-(0)

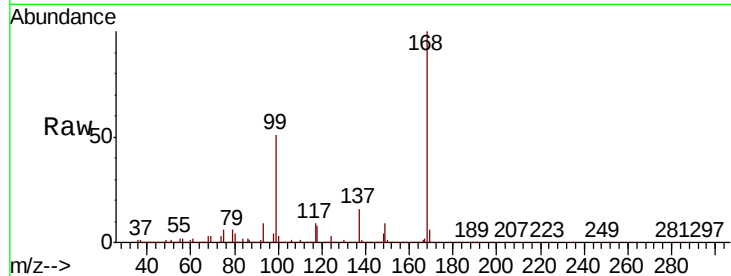
Tgt Ion:117 Resp: 30021

Ion Ratio Lower Upper

117 100

119 3.8 76.9 115.3#

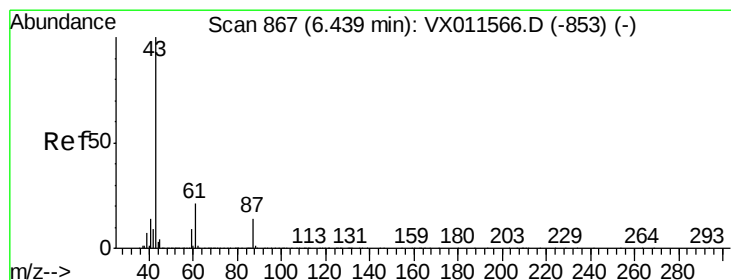
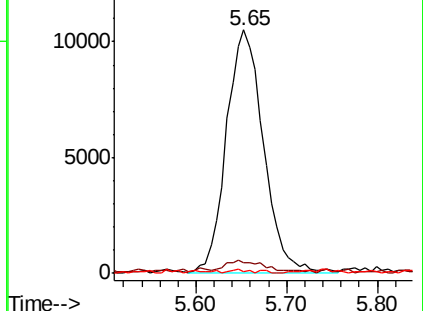
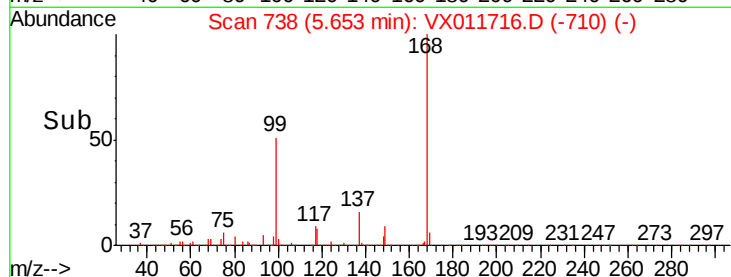
121 0.1 24.8 37.2#



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



#43

Isopropyl Acetate

Concen: 7.421 ug/l

RT: 6.44 min Scan# 867

Delta R.T. 0.00 min

Lab File: VX011716.D

Acq: 21 Aug 2019 04:20

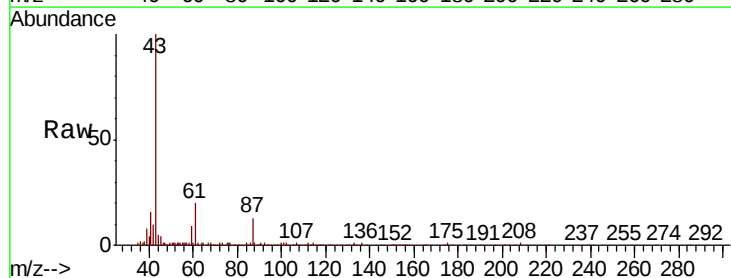
Tgt Ion: 43 Resp: 58338

Ion Ratio Lower Upper

43 100

61 20.5 16.6 24.8

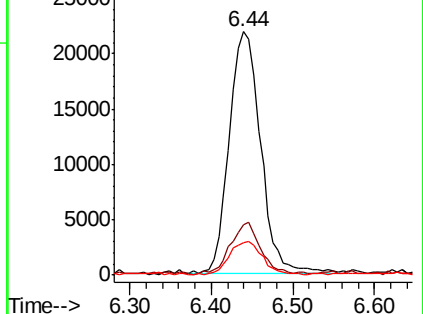
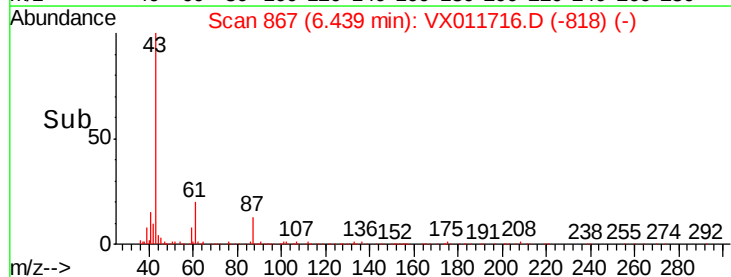
87 13.7 11.4 17.2

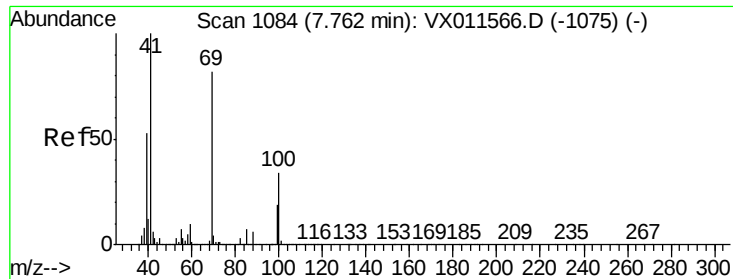


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methyl methacrylate

Concen: 0.857 ug/l

RT: 7.67 min Scan# 1069

Delta R.T. -0.09 min

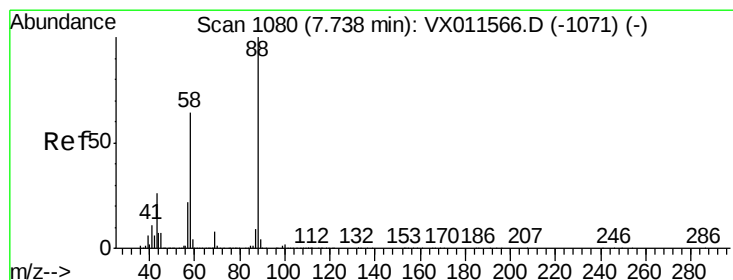
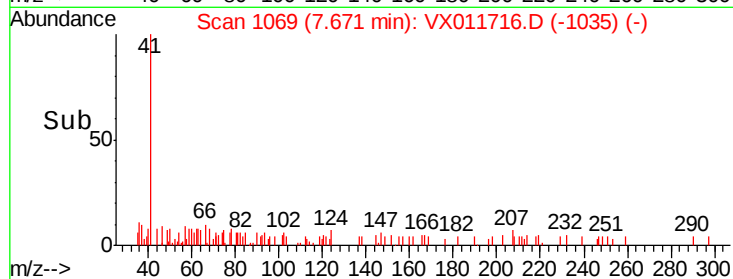
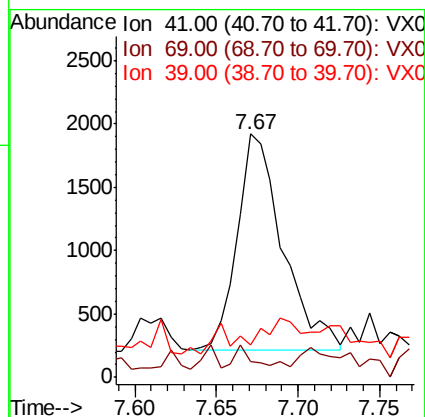
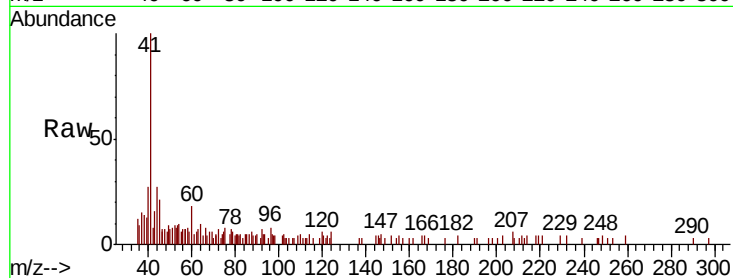
Lab File: VX011716.D

Acq: 21 Aug 2019 04:20

Instrument :
MSVOA_X
ClientSampleId :
T4-B3-(0)

Tgt Ion: 41 Resp: 3335

Ion	Ratio	Lower	Upper
41	100		
69	6.1	67.9	101.9#
39	0.0	41.6	62.4#



#49

1,4-Dioxane

Concen: 5.331 ug/l

RT: 7.76 min Scan# 1084

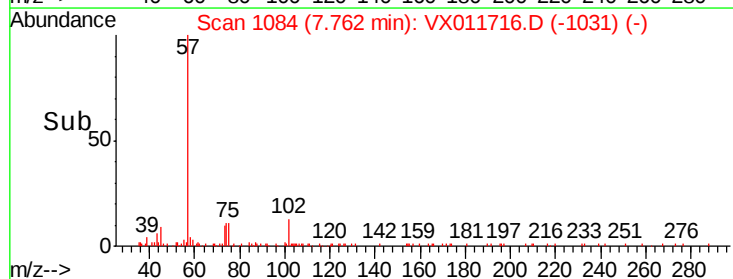
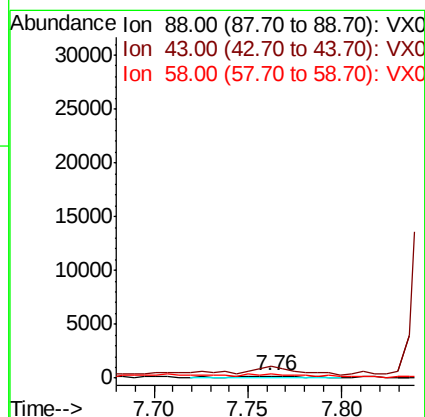
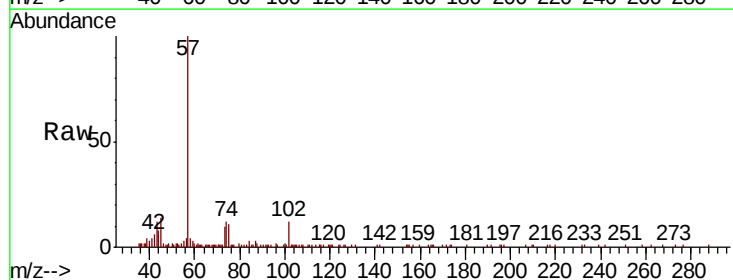
Delta R.T. 0.02 min

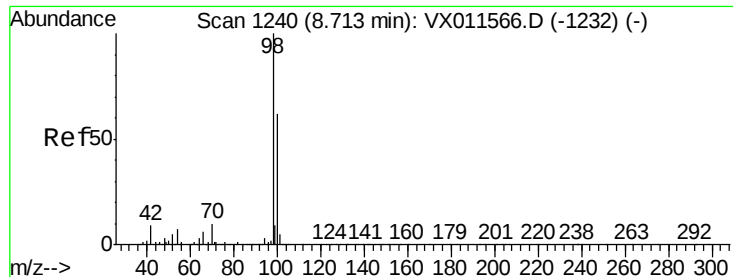
Lab File: VX011716.D

Acq: 21 Aug 2019 04:20

Tgt Ion: 88 Resp: 552

Ion	Ratio	Lower	Upper
88	100		
43	0.0	23.4	35.0#
58	71.2	54.3	81.5





#50

Toluene-d8

Concen: 55.163 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011716.D

Acq: 21 Aug 2019 04:20

Instrument :

MSVOA_X

ClientSampled :

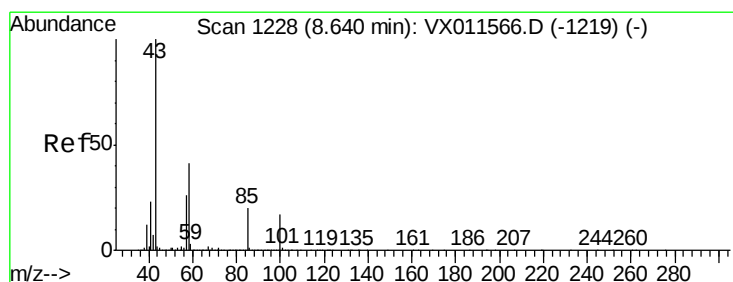
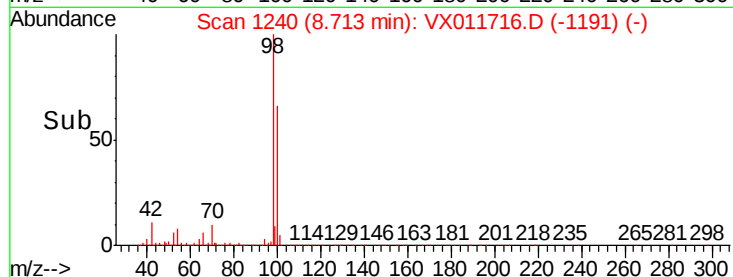
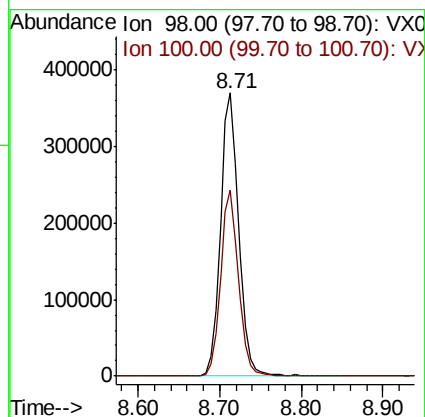
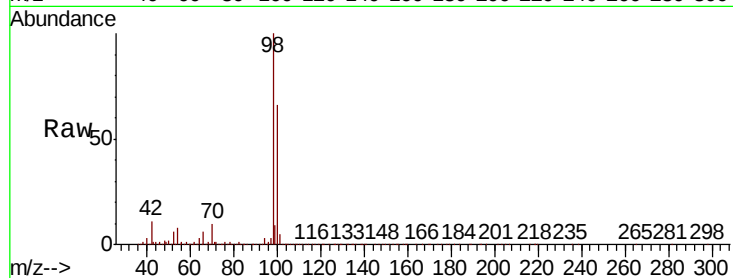
T4-B3-(0)

Tgt Ion: 98 Resp: 575814

Ion Ratio Lower Upper

98 100

100 64.8 52.4 78.6



#51

4-Methyl-2-Pentanone

Concen: 10.439 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011716.D

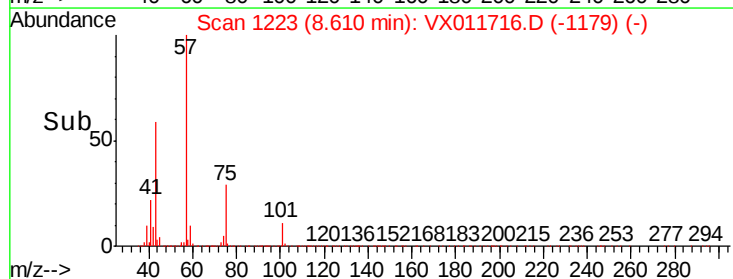
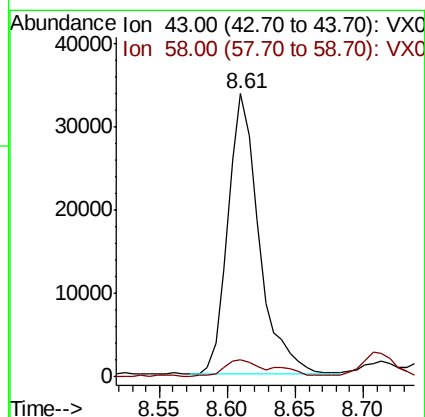
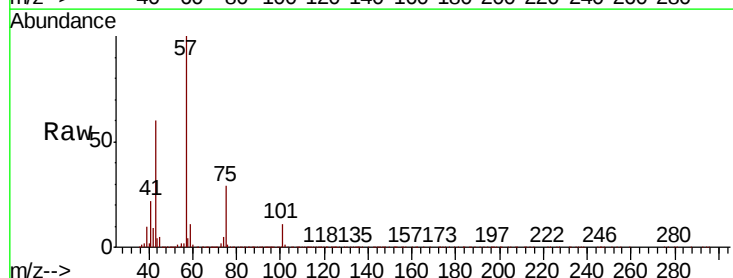
Acq: 21 Aug 2019 04:20

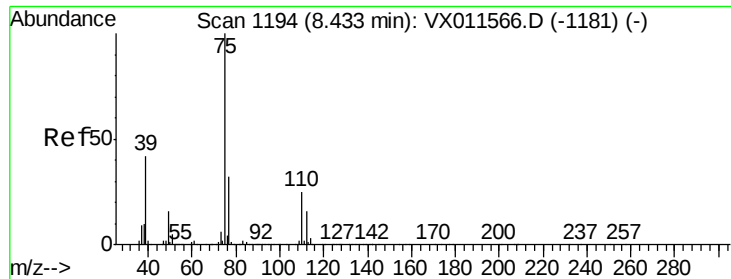
Tgt Ion: 43 Resp: 53711

Ion Ratio Lower Upper

43 100

58 6.7 31.8 47.6#





#54

cis-1,3-Dichloropropene

Concen: 4.940 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011716.D

Acq: 21 Aug 2019 04:20

Instrument :

MSVOA_X

ClientSampleId :

T4-B3-(0)

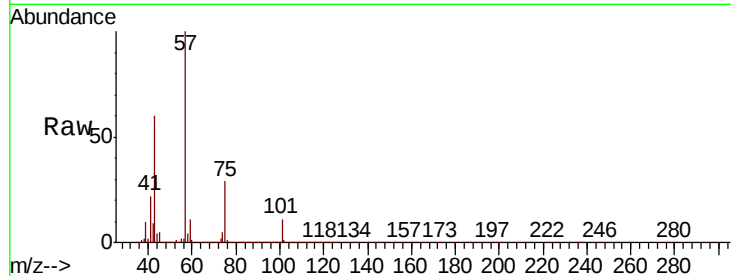
Tgt Ion: 75 Resp: 25407

Ion Ratio Lower Upper

75 100

77 0.2 25.5 38.3#

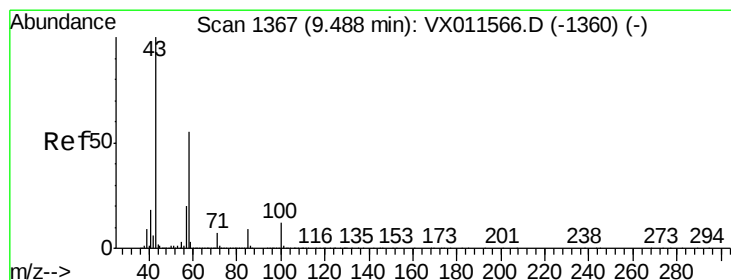
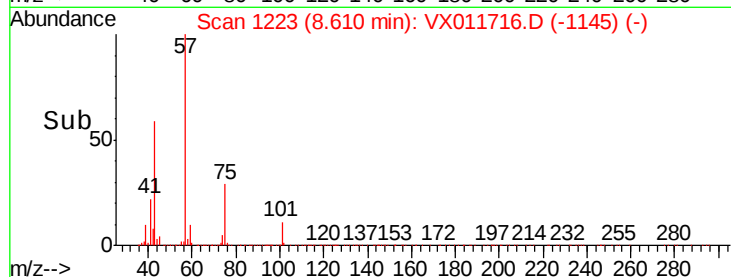
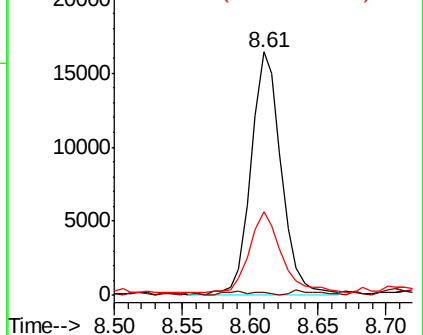
39 33.6 33.6 50.4



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 16.939 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.05 min

Lab File: VX011716.D

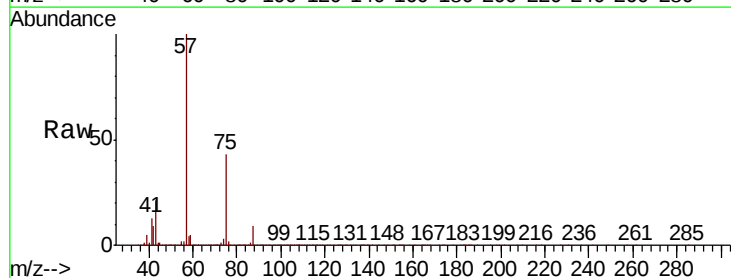
Acq: 21 Aug 2019 04:20

Tgt Ion: 43 Resp: 67209

Ion Ratio Lower Upper

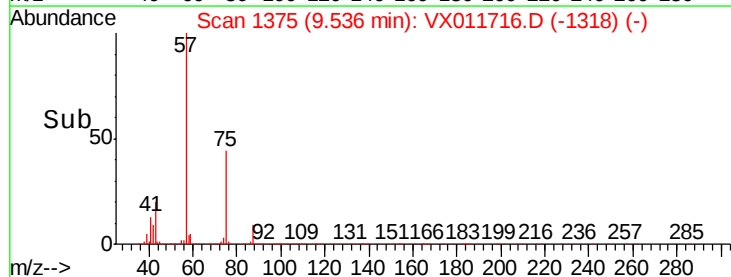
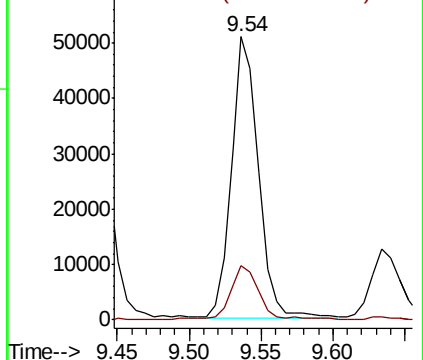
43 100

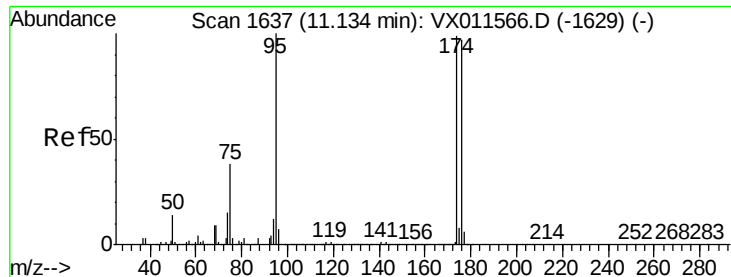
58 19.5 27.5 82.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 48.297 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011716.D

Acq: 21 Aug 2019 04:20

Instrument :

MSVOA_X

ClientSampleId :

T4-B3-(0)

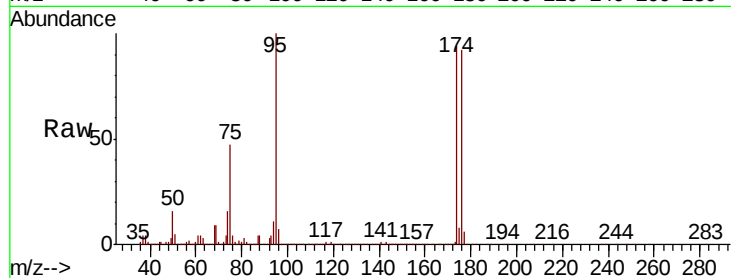
Tgt Ion: 95 Resp: 212791

Ion Ratio Lower Upper

95 100

174 98.1 0.0 200.6

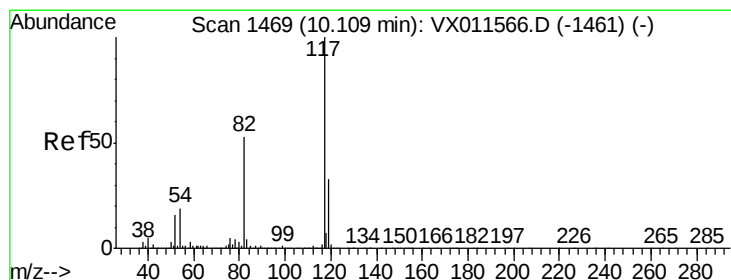
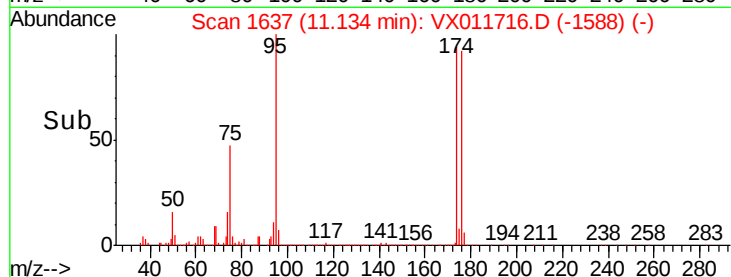
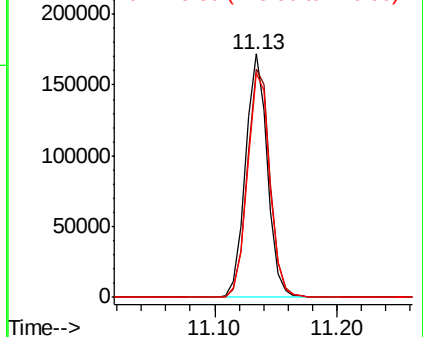
176 95.0 0.0 196.6



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# 1469

Delta R.T. 0.00 min

Lab File: VX011716.D

Acq: 21 Aug 2019 04:20

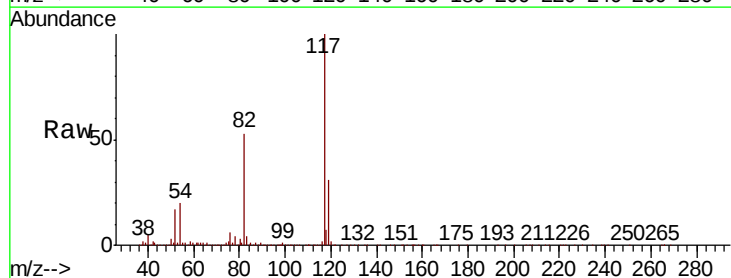
Tgt Ion: 117 Resp: 455877

Ion Ratio Lower Upper

117 100

82 53.0 42.0 63.0

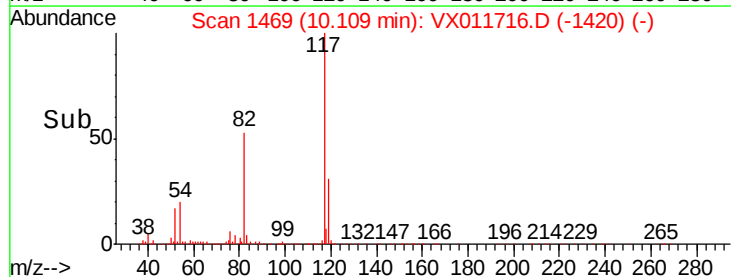
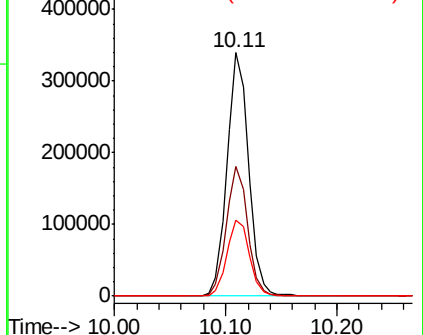
119 31.3 26.5 39.7

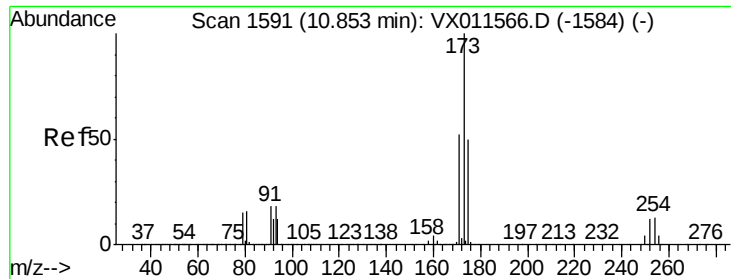


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#71

Bromoform

Concen: 3.321 ug/l

RT: 10.77 min Scan# 1577

Delta R.T. -0.09 min

Lab File: VX011716.D

Acq: 21 Aug 2019 04:20

Instrument :

MSVOA_X

ClientSampled :

T4-B3-(0)

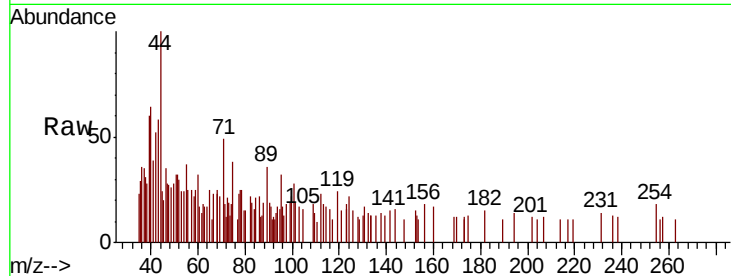
Tgt Ion:173 Resp: 112

Ion Ratio Lower Upper

173 100

175 0.0 24.9 74.7#

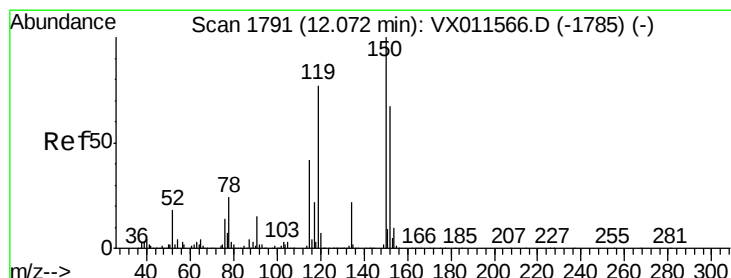
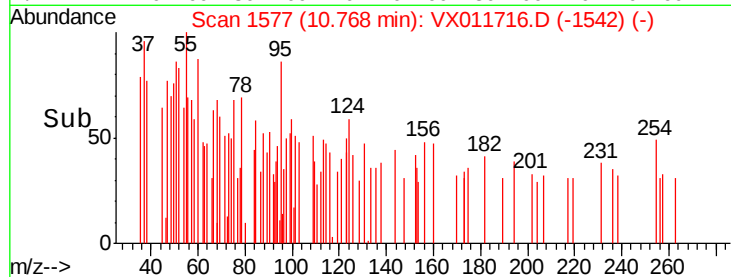
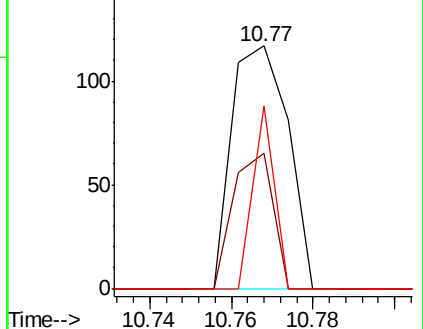
254 28.6 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX011716.D

Acq: 21 Aug 2019 04:20

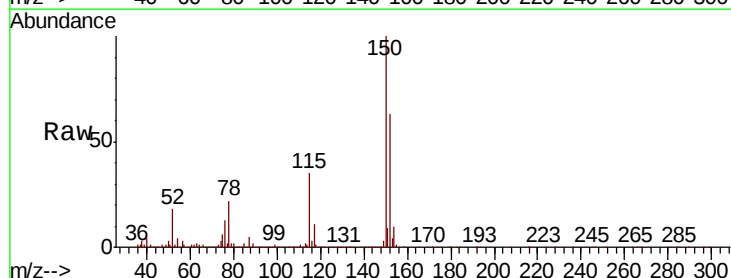
Tgt Ion:152 Resp: 228287

Ion Ratio Lower Upper

152 100

115 53.8 37.3 111.9

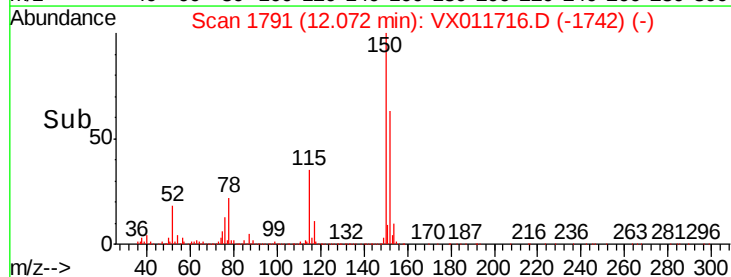
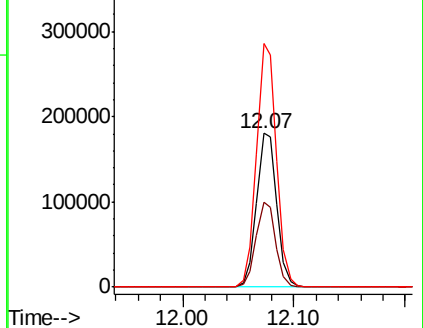
150 156.3 0.0 346.2

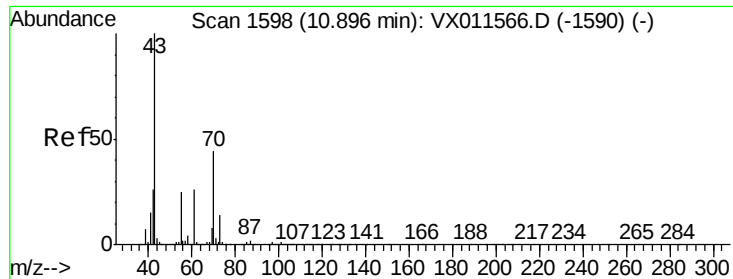


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyI acetate

Concen: 0.408 ug/l

RT: 10.82 min Scan# 1586

Delta R.T. -0.07 min

Lab File: VX011716.D

Acq: 21 Aug 2019 04:20

Instrument :

MSVOA_X

ClientSampleId :

T4-B3-(0)

Tgt Ion: 43 Resp: 2566

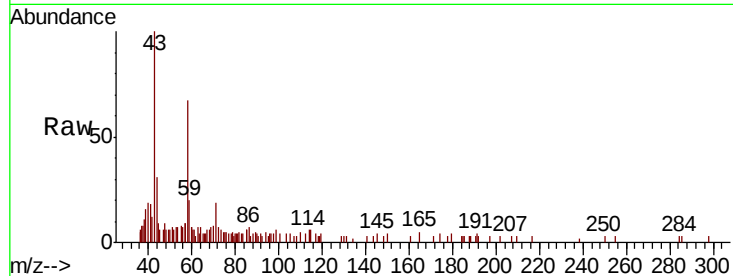
Ion Ratio Lower Upper

43 100

70 5.3 34.7 52.1#

55 18.2 19.6 29.4#

61 0.0 19.9 29.9#

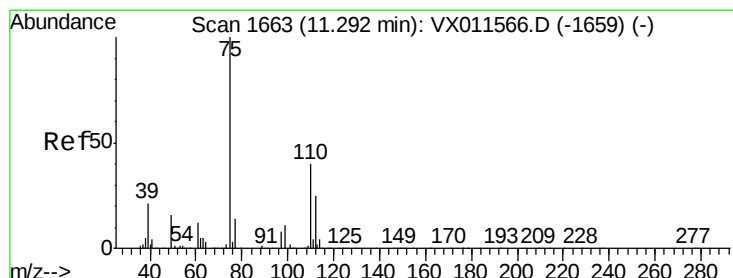
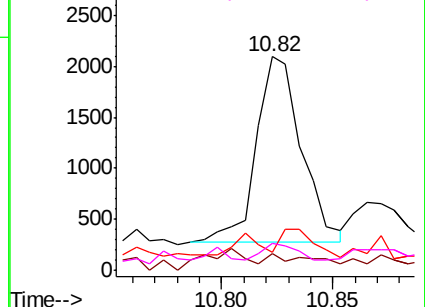
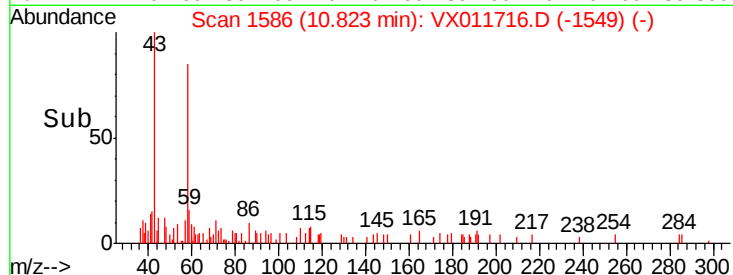


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 23.126 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011716.D

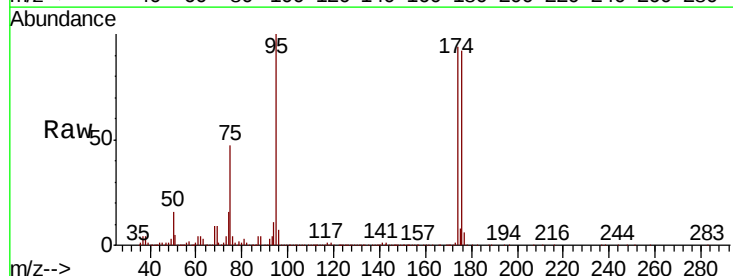
Acq: 21 Aug 2019 04:20

Tgt Ion: 75 Resp: 100107

Ion Ratio Lower Upper

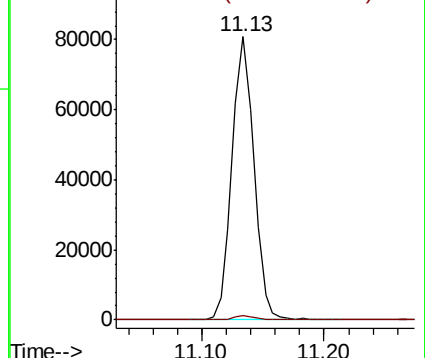
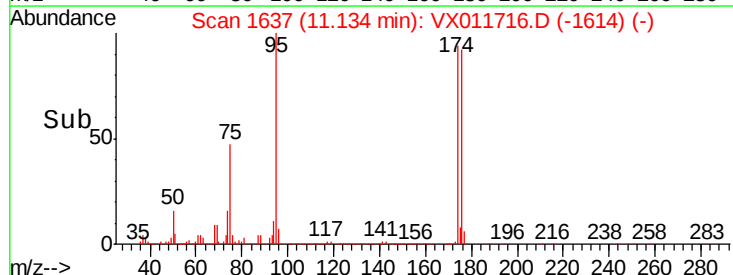
75 100

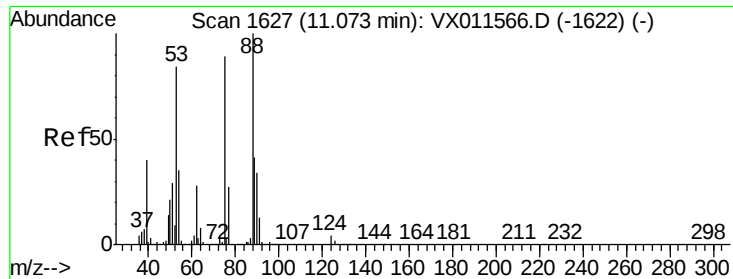
77 1.5 20.9 62.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 61.511 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011716.D

Acq: 21 Aug 2019 04:20

Instrument :

MSVOA_X

ClientSampleId :

T4-B3-(0)

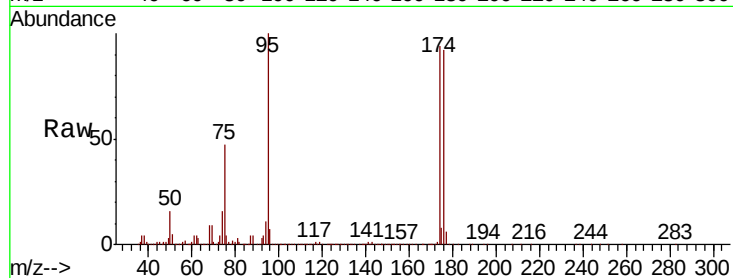
Tgt Ion: 75 Resp: 100107

Ion Ratio Lower Upper

75 100

53 0.3 77.4 116.0#

89 0.2 37.3 55.9#



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

