

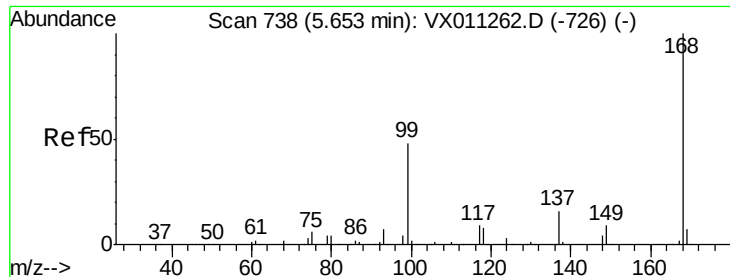
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081119\
 Data File : VX011429.D
 Acq On : 11 Aug 2019 14:19
 Operator : JC/SP
 Sample : K4228-26
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 2S-F4-(0)

Quant Time: Aug 12 07:48:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	206727	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	308745	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	286460	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	131598	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	110941	53.29	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.58%	
35) Dibromofluoromethane	5.49	113	93559	46.41	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.82%	
50) Toluene-d8	8.71	98	372908	49.01	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.02%	
62) 4-Bromofluorobenzene	11.13	95	125179	46.08	ug/l	0.00
Spiked Amount 50.000			Recovery	=	92.16%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.65	94	599	0.426	ug/l #	41
6) Chloroethane	1.80	64	318	Below Cal	#	43
8) Diethyl Ether	2.19	74	427	0.341	ug/l	89
11) Tert butyl alcohol	3.01	59	2734	6.608	ug/l #	81
13) Acrolein	2.31	56	93	Below Cal	#	16
16) Acetone	2.43	43	12712	12.828	ug/l	99
18) Methyl Acetate	2.77	43	1500	0.662	ug/l	97
20) Methylene Chloride	2.85	84	5673	2.614	ug/l	97
25) 2-Butanone	4.68	43	1045	0.741	ug/l #	89
36) 1,1-Dichloropropene	5.65	75	14174	5.258	ug/l #	49
38) Carbon Tetrachloride	5.66	117	19776	7.292	ug/l #	14
43) Isopropyl Acetate	6.43	43	8316	1.924	ug/l	95
48) Methyl methacrylate	7.68	41	3749	1.843	ug/l #	10
49) 1,4-Dioxane	7.86	88	121	2.052	ug/l #	1
51) 4-Methyl-2-Pentanone	8.61	43	43207	15.487	ug/l #	47
53) t-1,3-Dichloropropene	9.01	75	50	2.854	ug/l #	43
54) cis-1,3-Dichloropropene	8.61	75	21707	7.217	ug/l #	66
57) 1,3-Dichloropropane	9.54	76	5223	1.510	ug/l #	41
59) 2-Hexanone	9.54	43	67317	31.152	ug/l #	50
76) 1,2,3-Trichloropropane	11.13	75	63073	26.318	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	63073	68.441	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011429.D

Acq: 11 Aug 2019 14:19

Instrument :

MSVOA_X

ClientSampleId :

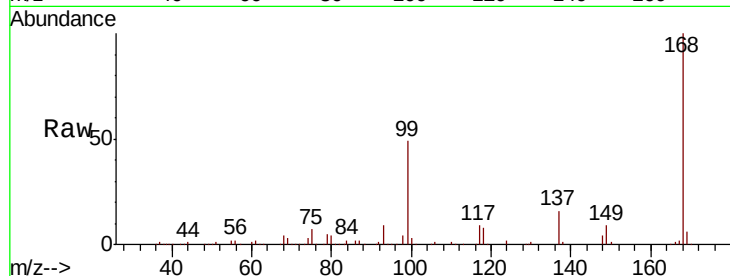
2S-F4-(0)

Tgt Ion:168 Resp: 206727

Ion Ratio Lower Upper

168 100

99 48.8 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

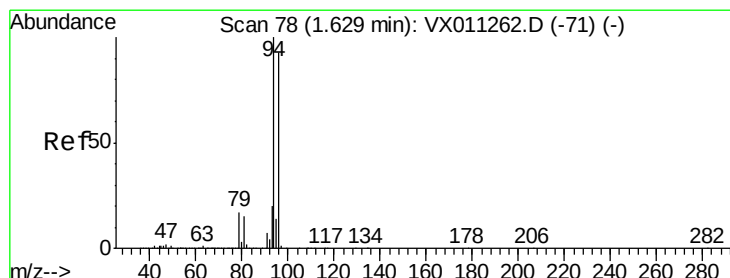
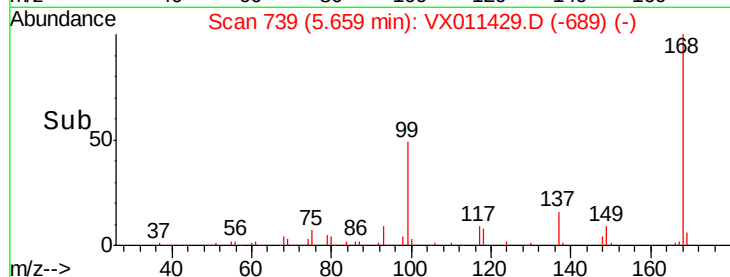
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.426 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX011429.D

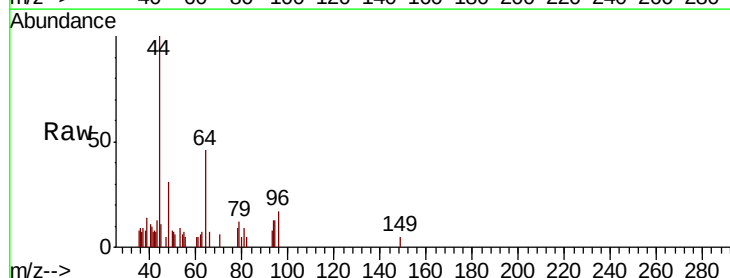
Acq: 11 Aug 2019 14:19

Tgt Ion: 94 Resp: 599

Ion Ratio Lower Upper

94 100

96 36.8 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

300

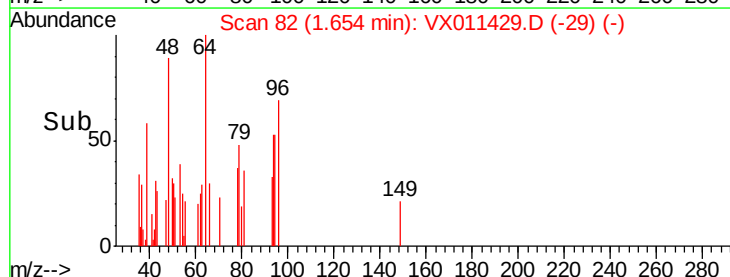
200

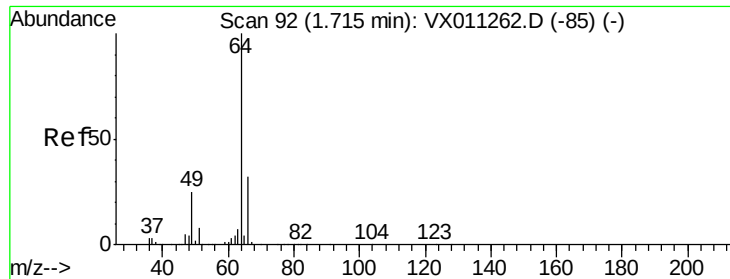
100

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.80 min Scan# 106

Delta R.T. 0.09 min

Lab File: VX011429.D

Acq: 11 Aug 2019 14:19

Instrument :

MSVOA_X

ClientSampleId :

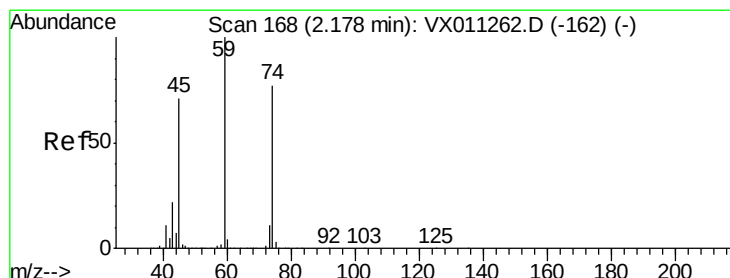
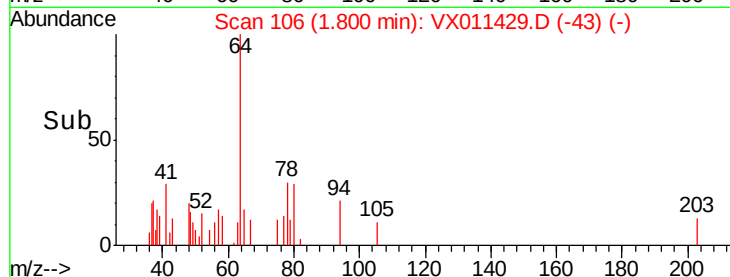
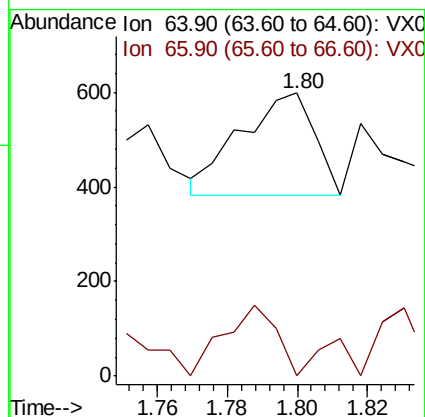
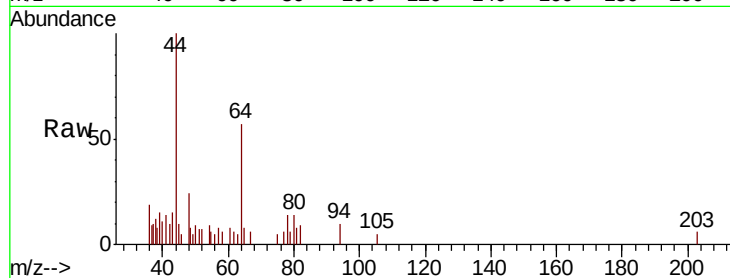
2S-F4-(0)

Tgt Ion: 64 Resp: 318

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#



#8

Diethyl Ether

Concen: 0.341 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.01 min

Lab File: VX011429.D

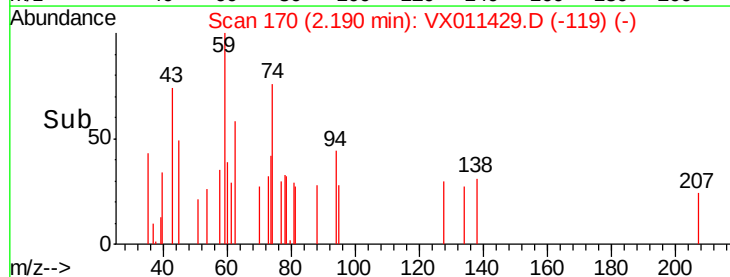
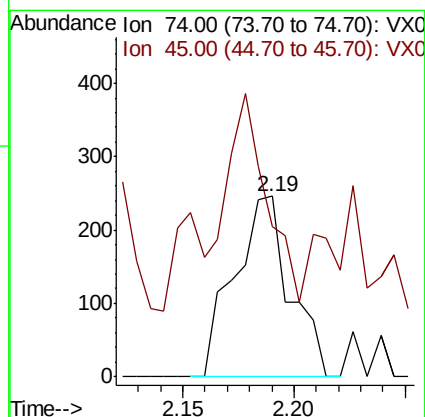
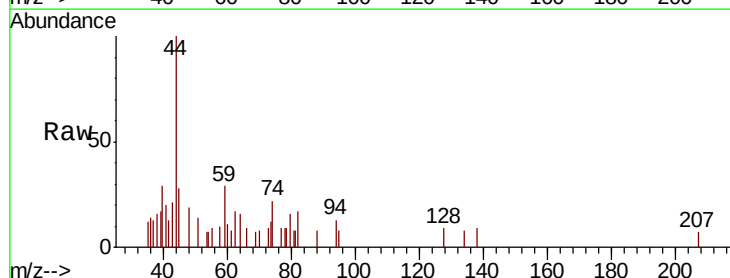
Acq: 11 Aug 2019 14:19

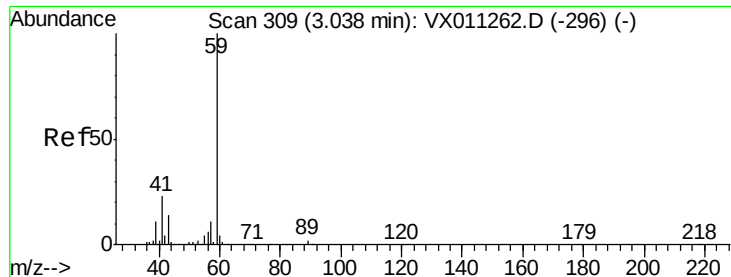
Tgt Ion: 74 Resp: 427

Ion Ratio Lower Upper

74 100

45 81.7 46.1 138.3

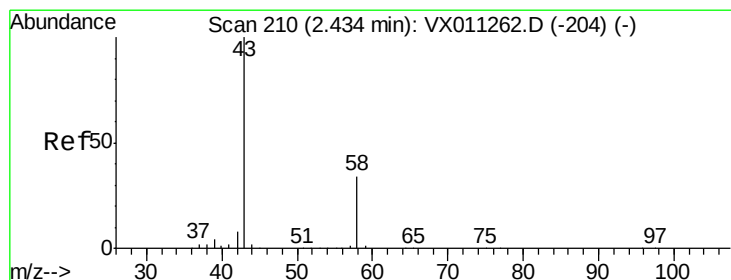
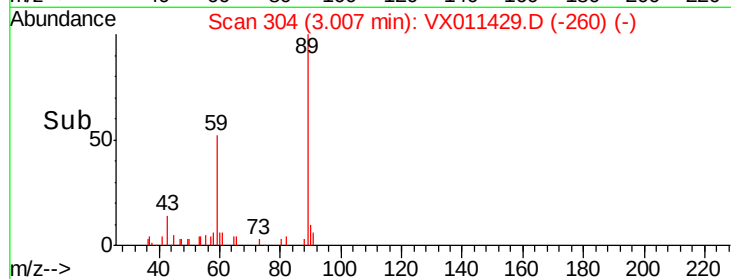
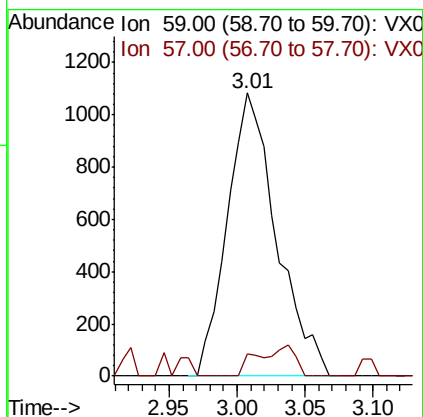
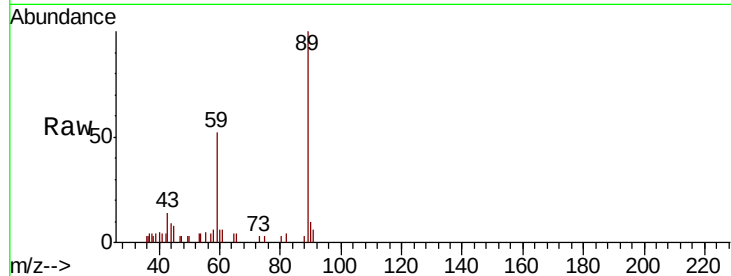




#11
Tert butyl alcohol
Concen: 6.608 ug/l
RT: 3.01 min Scan# 304
Delta R.T. -0.03 min
Lab File: VX011429.D
Acq: 11 Aug 2019 14:19

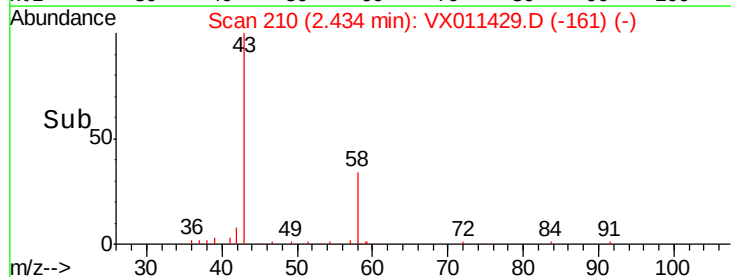
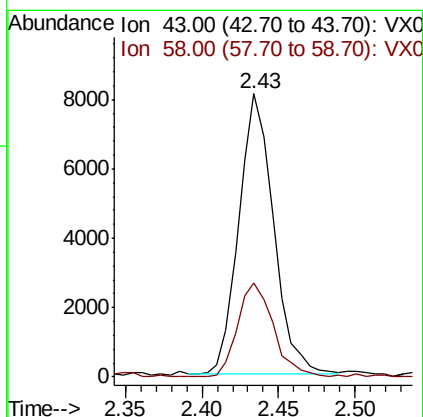
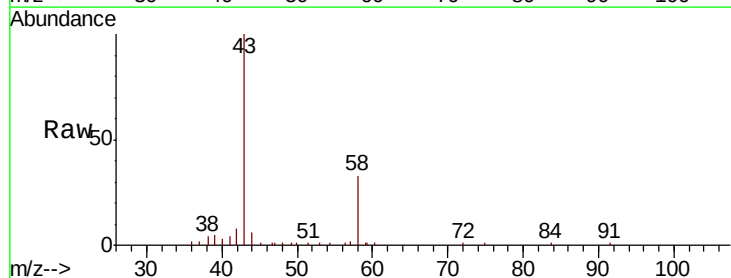
Instrument :
MSVOA_X
ClientSampled :
2S-F4-(0)

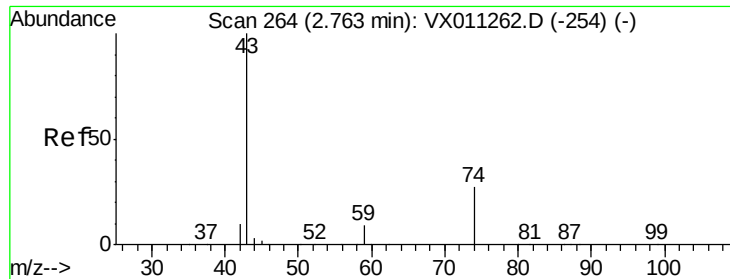
Tgt Ion: 59 Resp: 2734
Ion Ratio Lower Upper
59 100
57 3.2 8.3 12.5#



#16
Acetone
Concen: 12.828 ug/l
RT: 2.43 min Scan# 210
Delta R.T. 0.00 min
Lab File: VX011429.D
Acq: 11 Aug 2019 14:19

Tgt Ion: 43 Resp: 12712
Ion Ratio Lower Upper
43 100
58 33.8 27.4 41.0

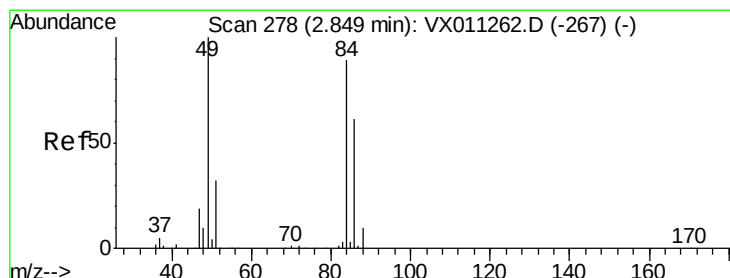
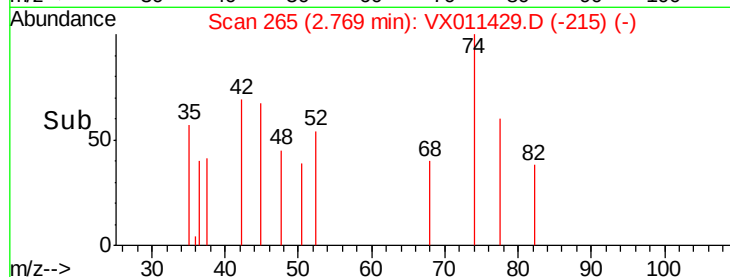
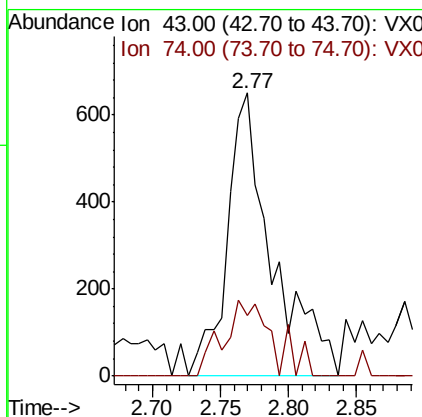
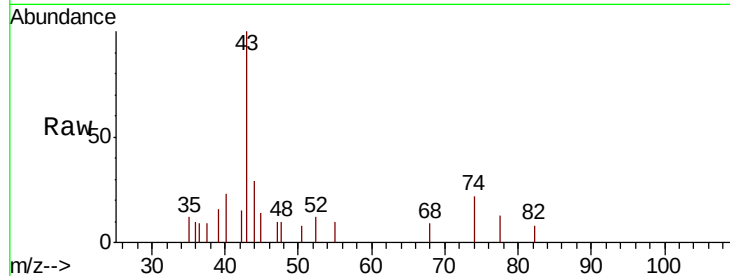




#18
Methyl Acetate
Concen: 0.662 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX011429.D
Acq: 11 Aug 2019 14:19

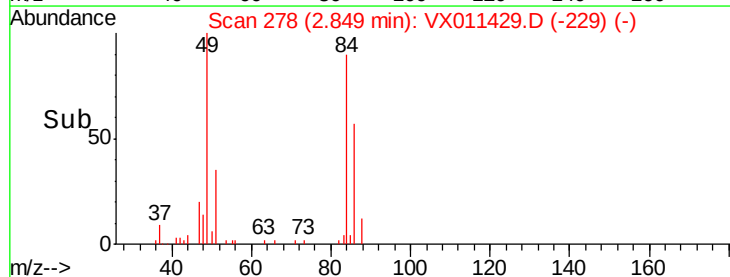
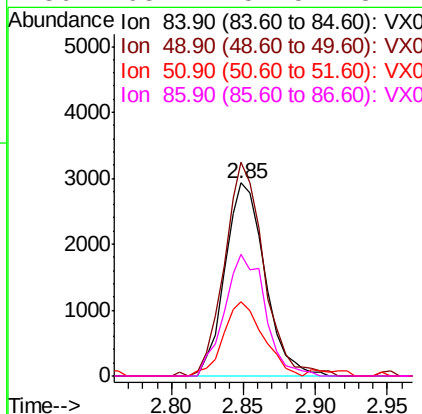
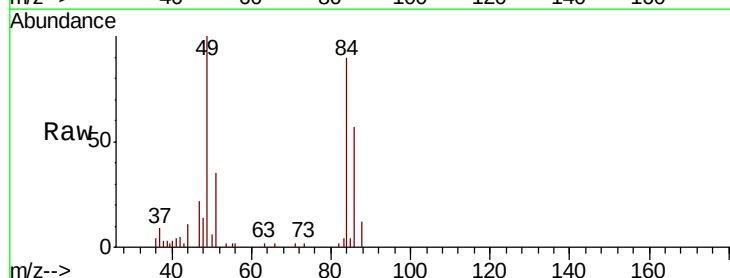
Instrument :
MSVOA_X
ClientSampleId :
2S-F4-(0)

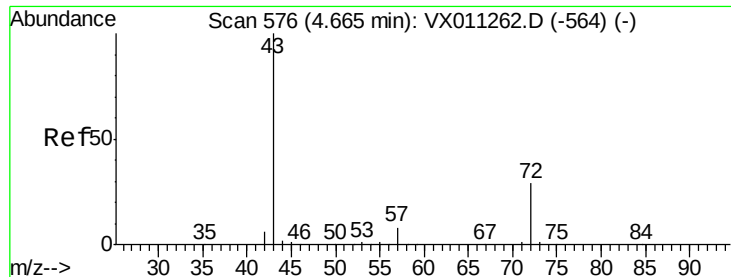
Tgt Ion: 43 Resp: 1500
Ion Ratio Lower Upper
43 100
74 24.7 21.0 31.6



#20
Methylene Chloride
Concen: 2.614 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011429.D
Acq: 11 Aug 2019 14:19

Tgt Ion: 84 Resp: 5673
Ion Ratio Lower Upper
84 100
49 110.8 89.3 133.9
51 38.7 28.3 42.5
86 63.4 54.5 81.7

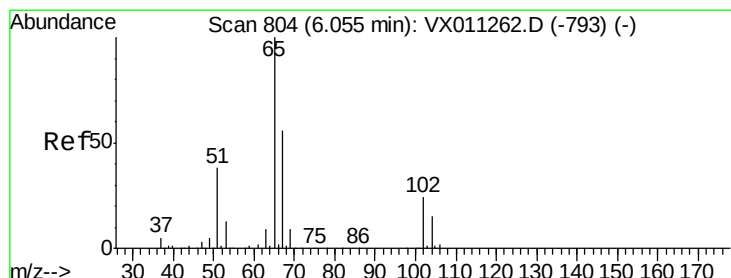
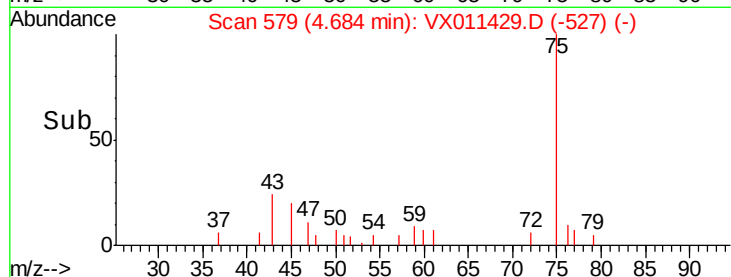
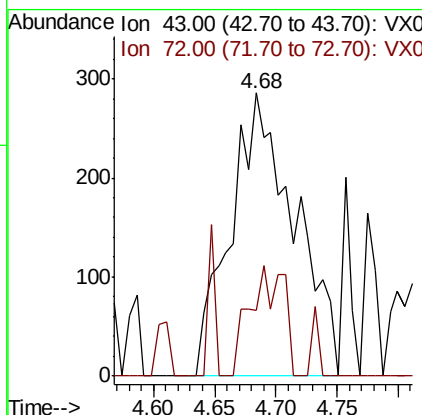
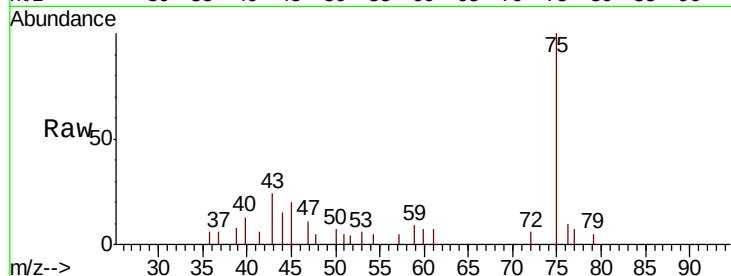




#25
2-Butanone
Concen: 0.741 ug/l
RT: 4.68 min Scan# 579
Delta R.T. 0.02 min
Lab File: VX011429.D
Acq: 11 Aug 2019 14:19

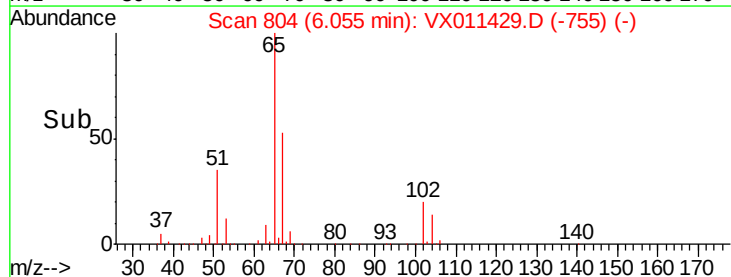
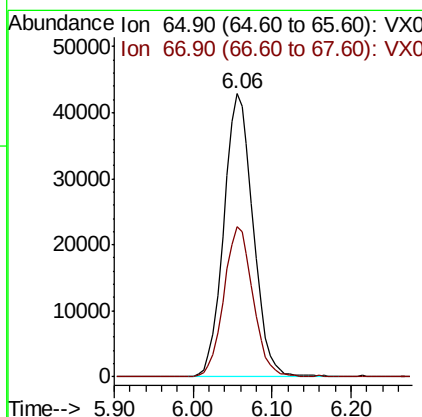
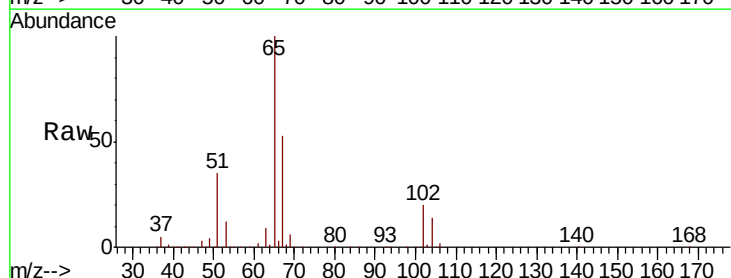
Instrument :
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ClientSampleId :
2S-F4-(0)

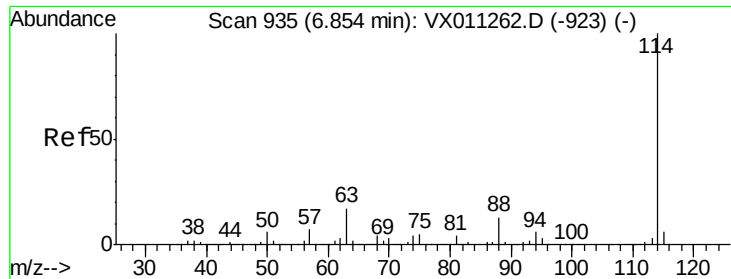
Tgt Ion: 43 Resp: 1045
Ion Ratio Lower Upper
43 100
72 23.1 23.2 34.8#



#33
1,2-Dichloroethane-d4
Concen: 53.290 ug/l
RT: 6.06 min Scan# 804
Delta R.T. 0.00 min
Lab File: VX011429.D
Acq: 11 Aug 2019 14:19

Tgt Ion: 65 Resp: 110941
Ion Ratio Lower Upper
65 100
67 52.2 0.0 110.6

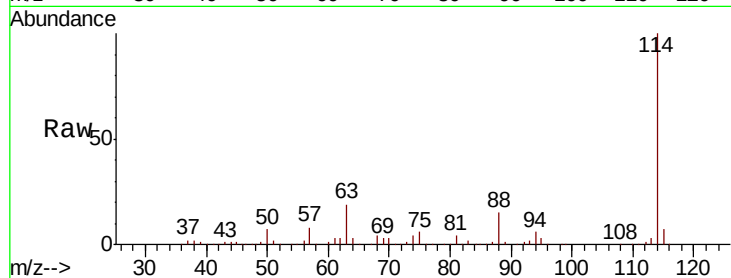




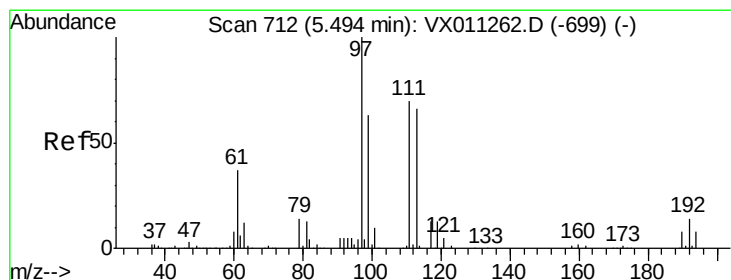
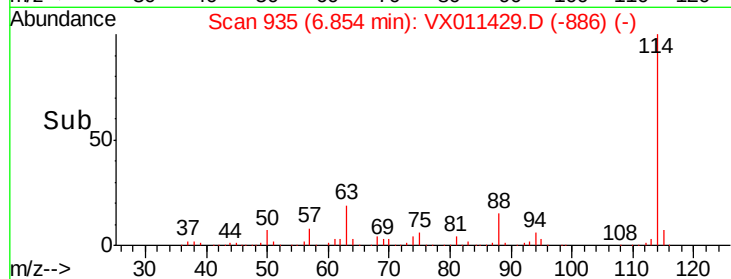
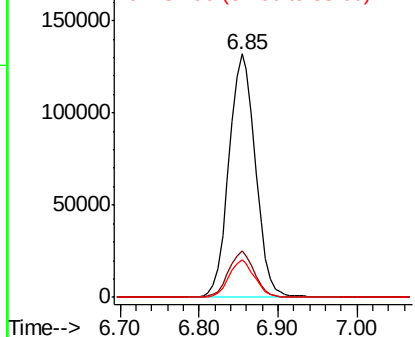
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX011429.D
 Acq: 11 Aug 2019 14:19

Instrument :
 MSVOA_X
 ClientSampleId :
 2S-F4-(0)

Tgt Ion:114 Resp: 308745
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 34.0
 88 15.3 0.0 26.4

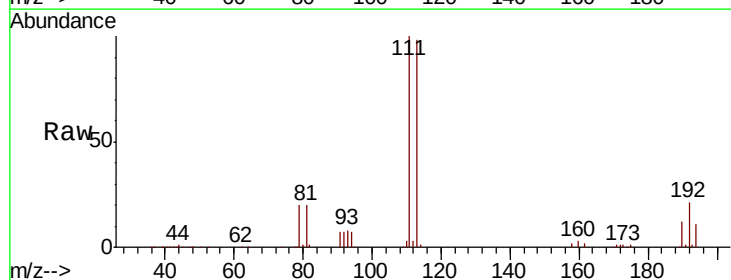


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

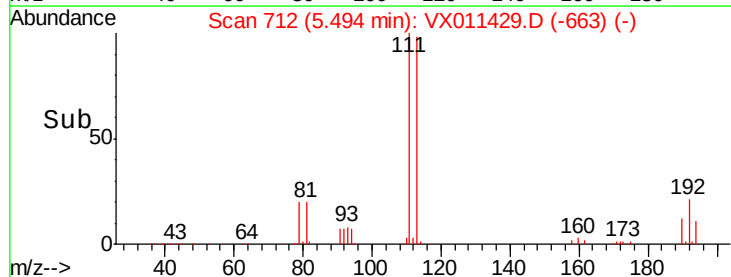
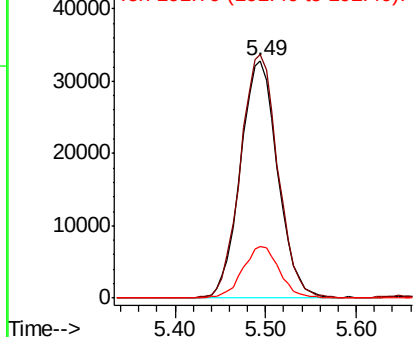


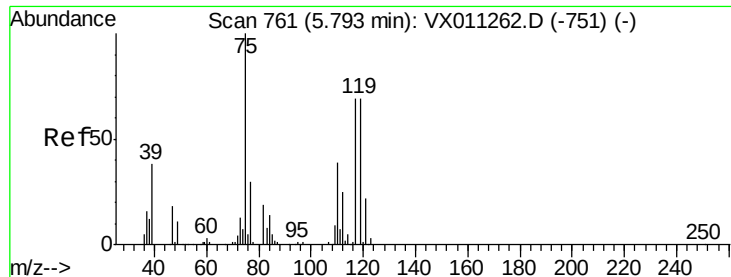
#35
 Dibromofluoromethane
 Concen: 46.415 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. 0.00 min
 Lab File: VX011429.D
 Acq: 11 Aug 2019 14:19

Tgt Ion:113 Resp: 93559
 Ion Ratio Lower Upper
 113 100
 111 103.0 81.9 122.9
 192 21.6 17.8 26.8



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

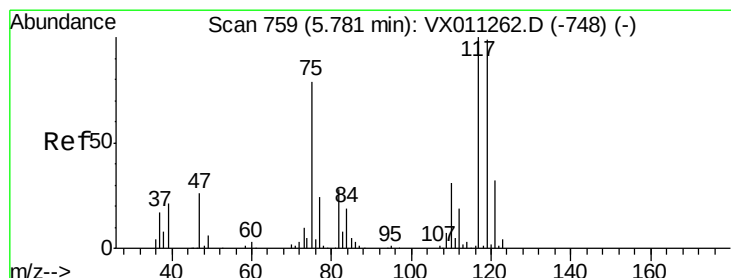
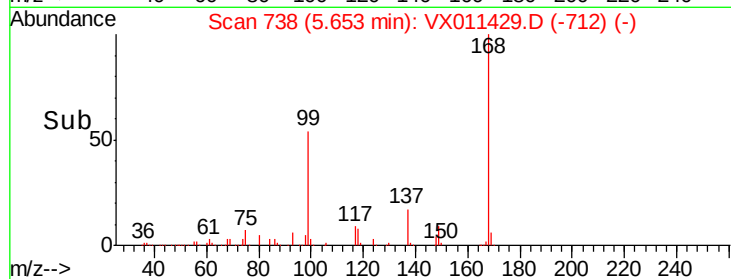
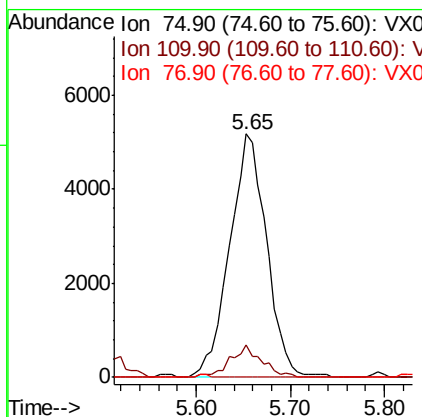
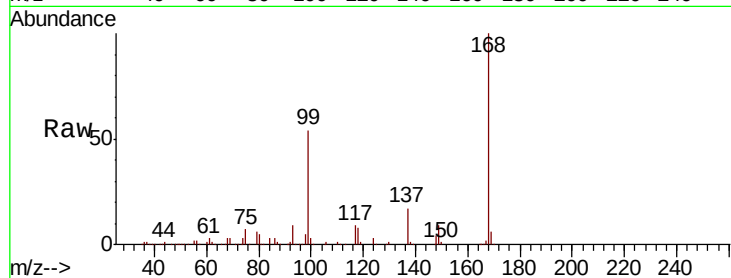




#36
 1,1-Dichloropropene
 Concen: 5.258 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.14 min
 Lab File: VX011429.D
 Acq: 11 Aug 2019 14:19

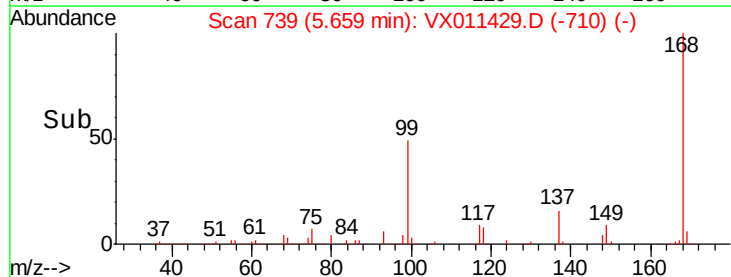
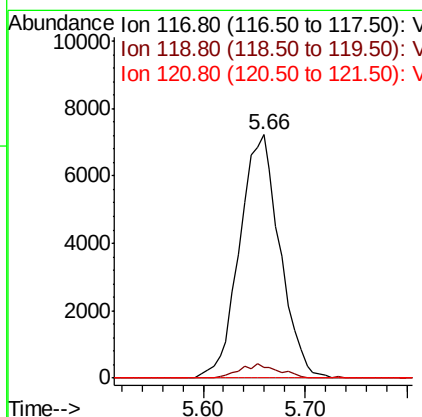
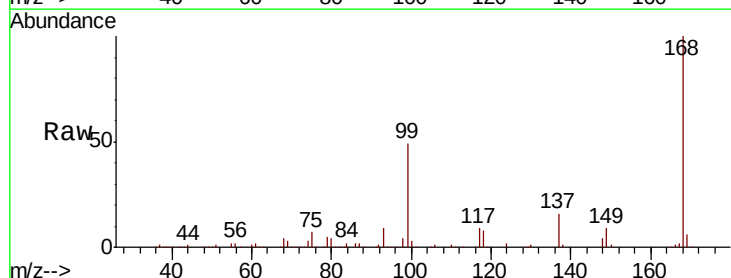
Instrument :
 MSVOA_X
 ClientSampleId :
 2S-F4-(0)

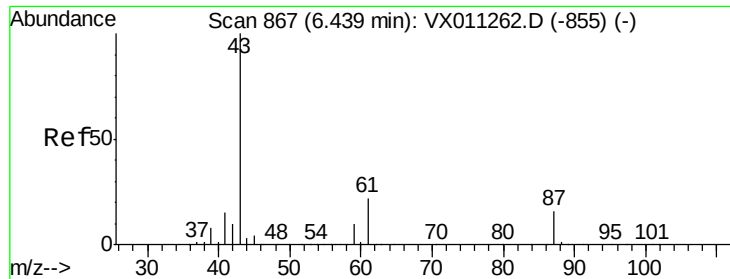
Tgt Ion: 75 Resp: 14174
 Ion Ratio Lower Upper
 75 100
 110 11.2 20.0 59.9#
 77 0.0 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 7.292 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX011429.D
 Acq: 11 Aug 2019 14:19

Tgt Ion: 117 Resp: 19776
 Ion Ratio Lower Upper
 117 100
 119 4.4 79.0 118.4#
 121 0.0 25.9 38.9#





#43

Isopropyl Acetate

Concen: 1.924 ug/l

RT: 6.43 min Scan# 866

Delta R.T. -0.01 min

Lab File: VX011429.D

Acq: 11 Aug 2019 14:19

Instrument :

MSVOA_X

ClientSampleId :

2S-F4-(0)

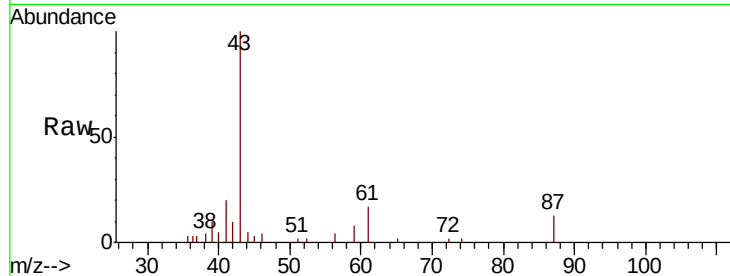
Tgt Ion: 43 Resp: 8316

Ion Ratio Lower Upper

43 100

61 23.7 16.5 24.7

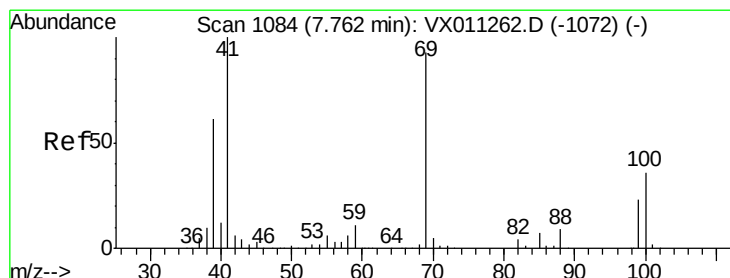
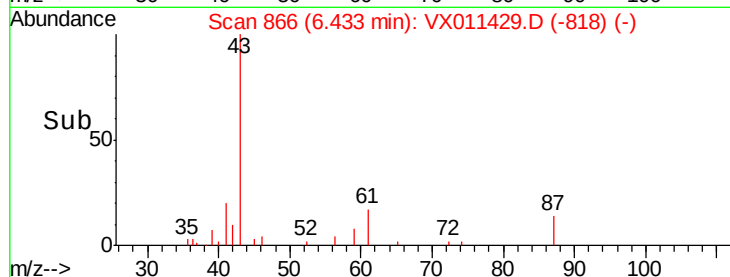
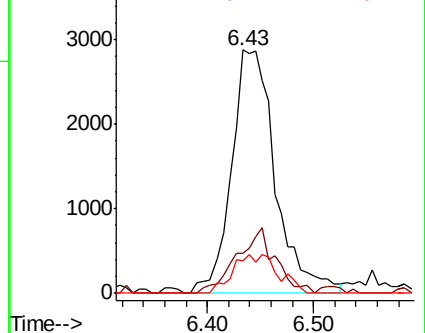
87 16.4 12.1 18.1



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: 1.843 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX011429.D

Acq: 11 Aug 2019 14:19

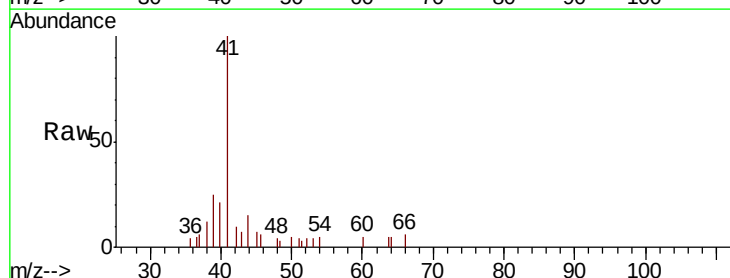
Tgt Ion: 41 Resp: 3749

Ion Ratio Lower Upper

41 100

69 0.0 74.5 111.7#

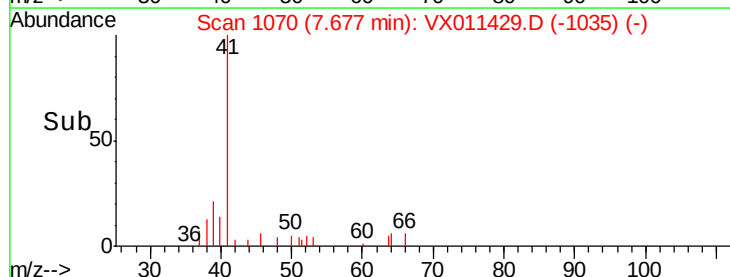
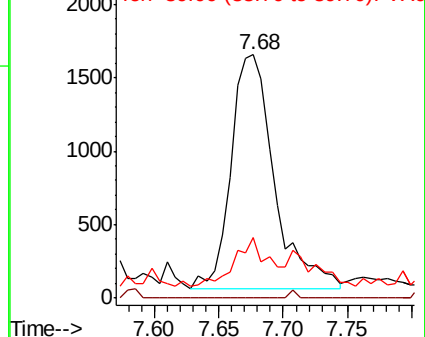
39 0.0 48.6 72.8#

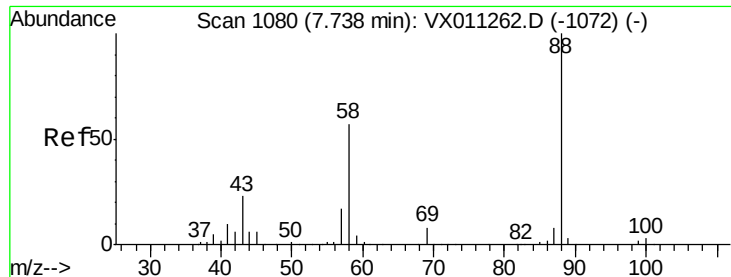


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

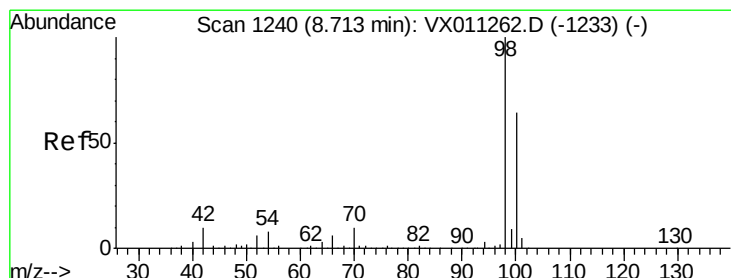
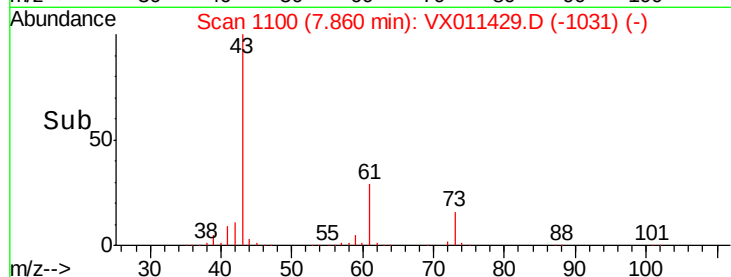
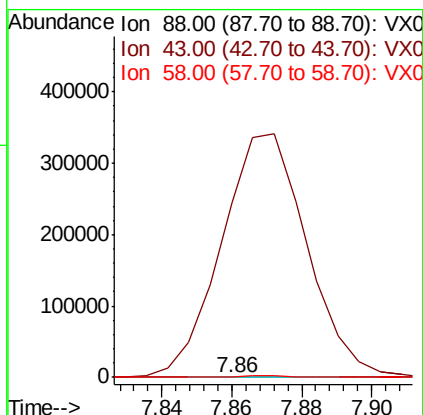
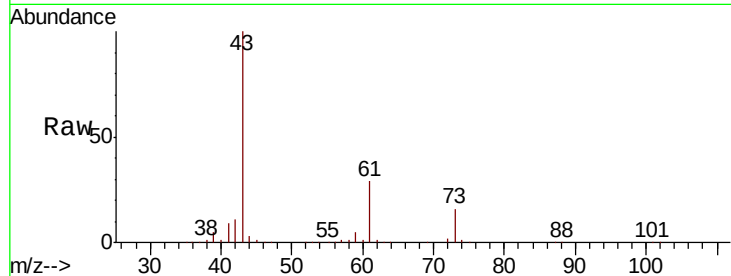




#49
 1,4-Dioxane
 Concen: 2.052 ug/l
 RT: 7.86 min Scan# 1100
 Delta R.T. 0.12 min
 Lab File: VX011429.D
 Acq: 11 Aug 2019 14:19

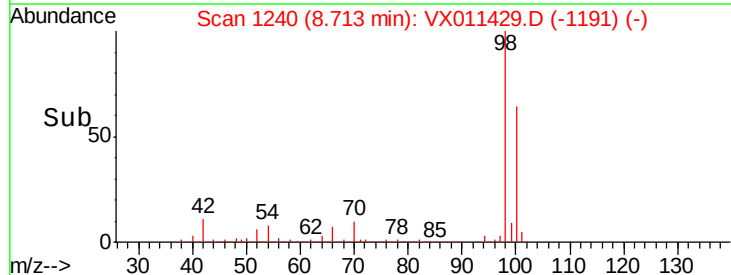
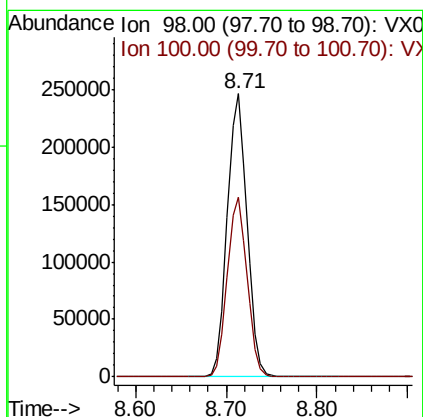
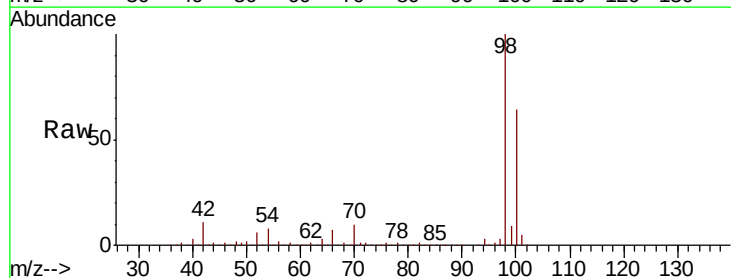
Instrument :
 MSVOA_X
 ClientSampleId :
 2S-F4-(0)

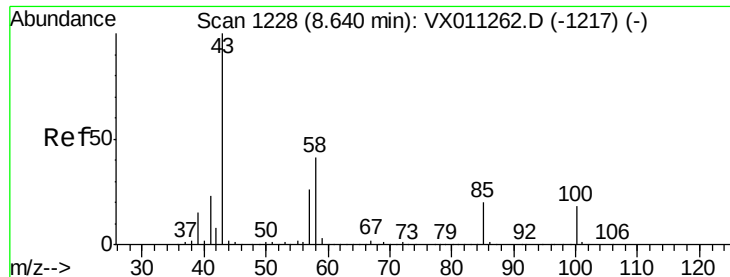
Tgt Ion: 88 Resp: 121
 Ion Ratio Lower Upper
 88 100
 43 482705.8 22.2 33.2#
 58 2514.0 47.8 71.8#



#50
 Toluene-d8
 Concen: 49.010 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX011429.D
 Acq: 11 Aug 2019 14:19

Tgt Ion: 98 Resp: 372908
 Ion Ratio Lower Upper
 98 100
 100 63.7 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 15.487 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011429.D

Acq: 11 Aug 2019 14:19

Instrument :

MSVOA_X

ClientSampleId :

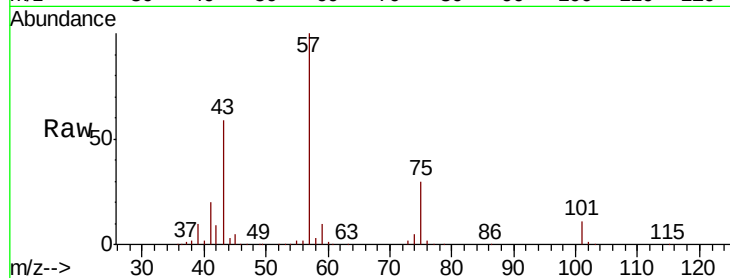
2S-F4-(0)

Tgt Ion: 43 Resp: 43207

Ion Ratio Lower Upper

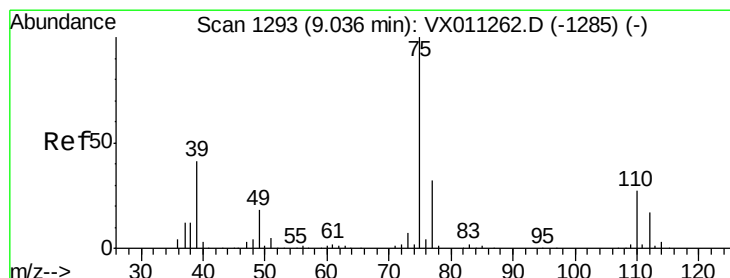
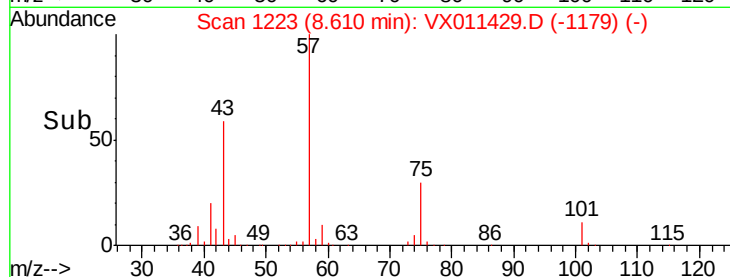
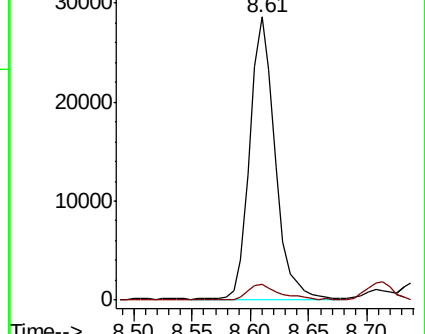
43 100

58 7.6 32.3 48.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#53

t-1,3-Dichloropropene

Concen: 2.854 ug/l

RT: 9.01 min Scan# 1288

Delta R.T. -0.03 min

Lab File: VX011429.D

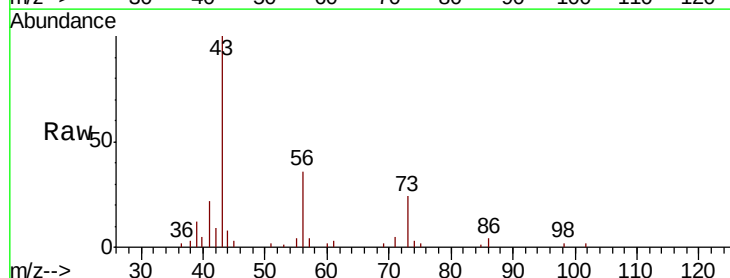
Acq: 11 Aug 2019 14:19

Tgt Ion: 75 Resp: 50

Ion Ratio Lower Upper

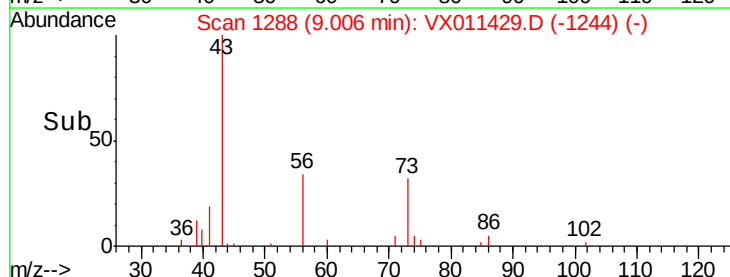
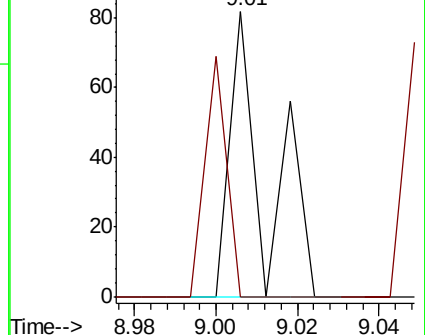
75 100

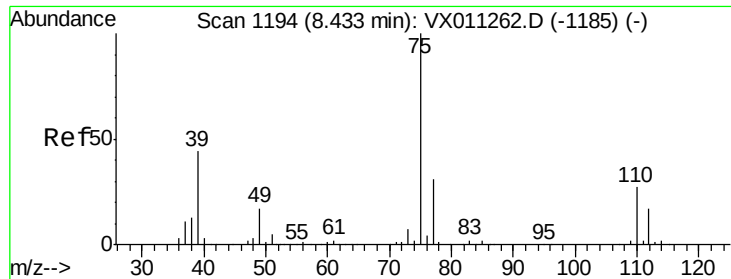
77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0





#54

cis-1,3-Dichloropropene

Concen: 7.217 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011429.D

Acq: 11 Aug 2019 14:19

Instrument :

MSVOA_X

ClientSampleId :

2S-F4-(0)

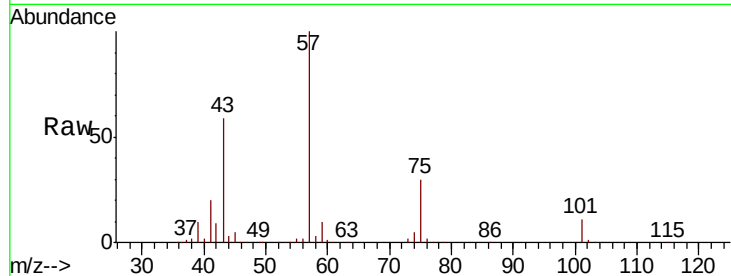
Tgt Ion: 75 Resp: 21707

Ion Ratio Lower Upper

75 100

77 0.1 25.0 37.6#

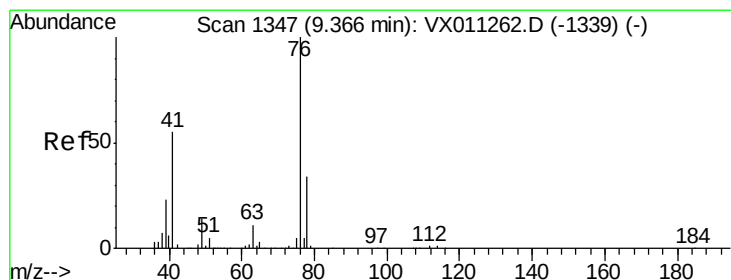
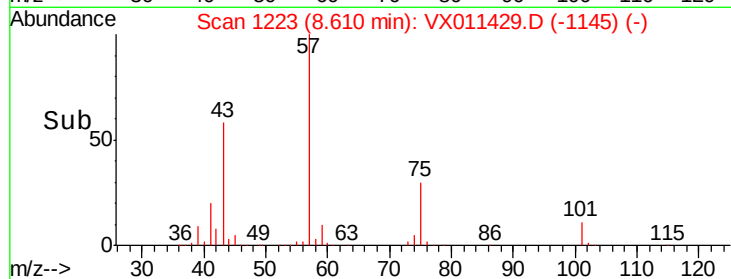
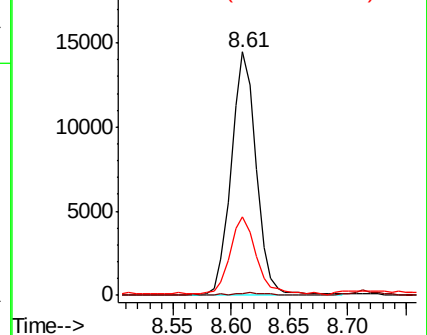
39 31.9 35.3 52.9#



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



#57

1,3-Dichloropropene

Concen: 1.510 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.17 min

Lab File: VX011429.D

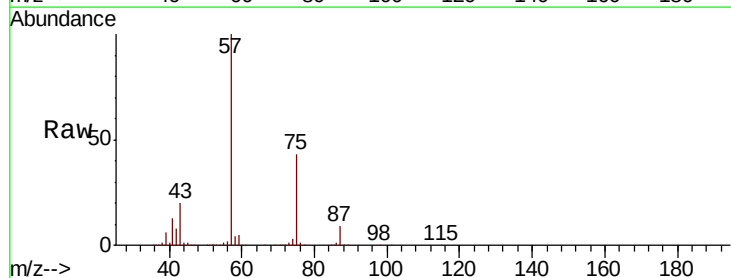
Acq: 11 Aug 2019 14:19

Tgt Ion: 76 Resp: 5223

Ion Ratio Lower Upper

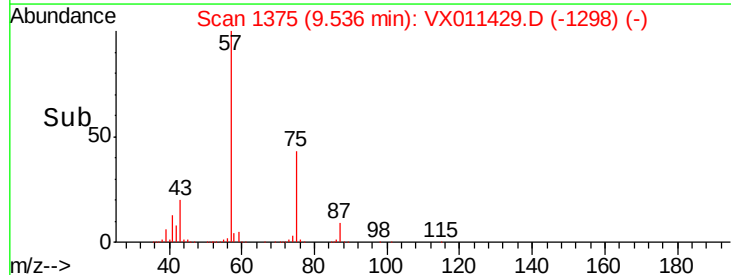
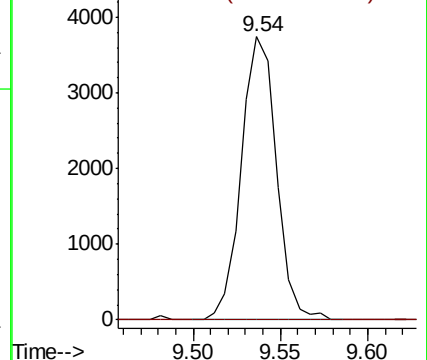
76 100

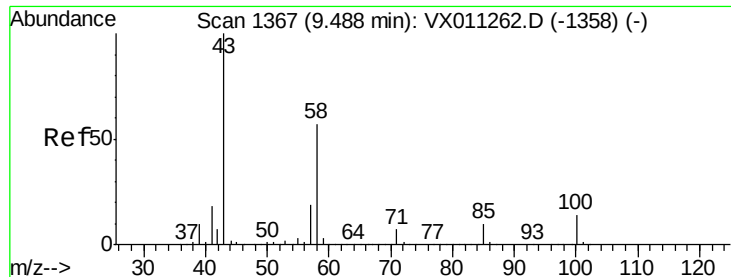
78 0.0 26.6 40.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

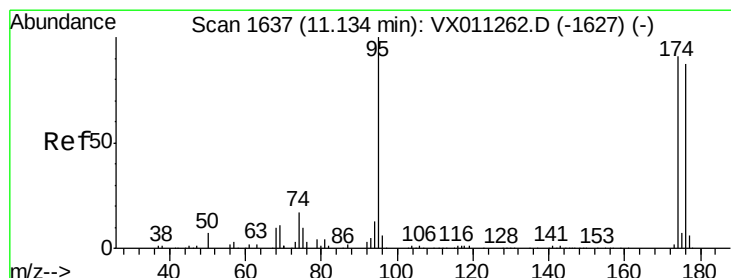
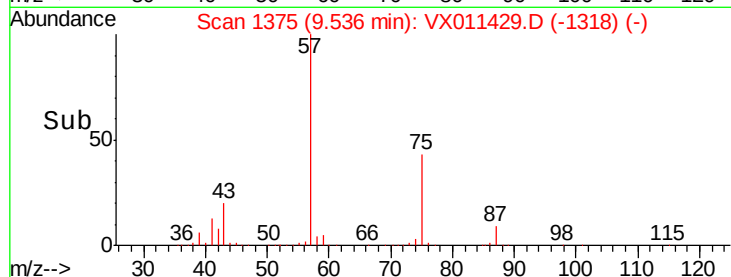
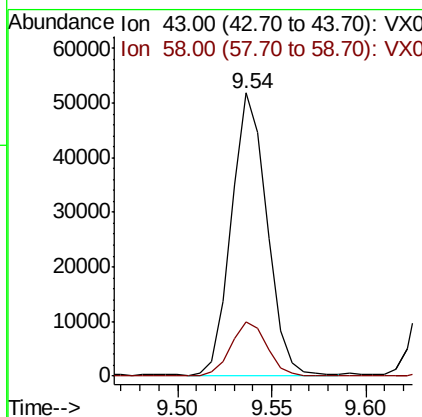
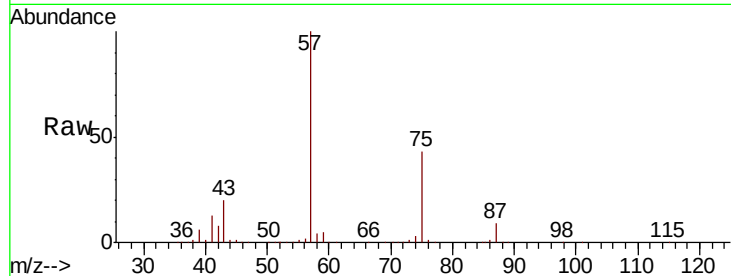




#59
2-Hexanone
Concen: 31.152 ug/l
RT: 9.54 min Scan# 1375
Delta R.T. 0.05 min
Lab File: VX011429.D
Acq: 11 Aug 2019 14:19

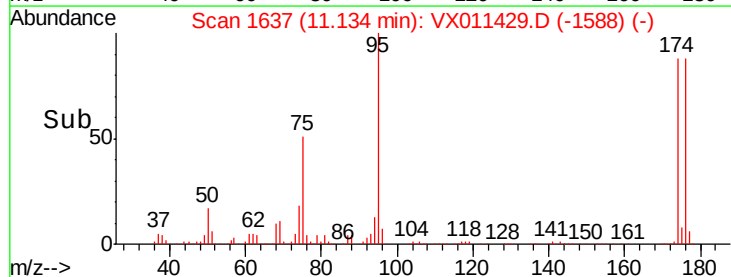
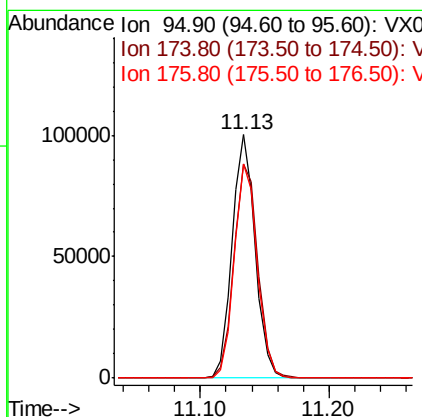
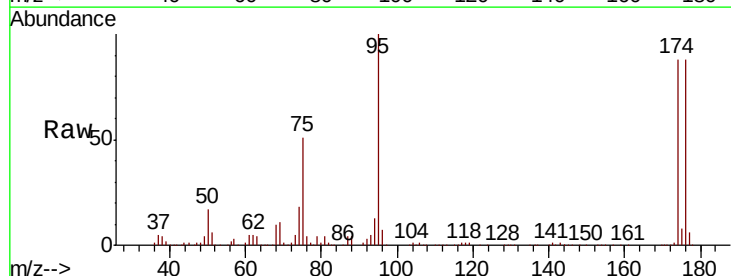
Instrument :
MSVOA_X
ClientSampled :
2S-F4-(0)

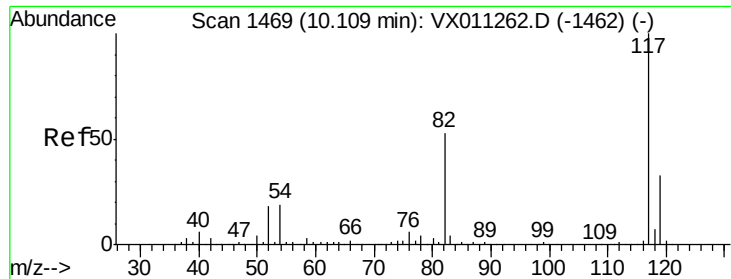
Tgt Ion: 43 Resp: 67317
Ion Ratio Lower Upper
43 100
58 20.0 28.2 84.6#



#62
4-Bromofluorobenzene
Concen: 46.080 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011429.D
Acq: 11 Aug 2019 14:19

Tgt Ion: 95 Resp: 125179
Ion Ratio Lower Upper
95 100
174 91.6 0.0 191.2
176 88.4 0.0 184.8

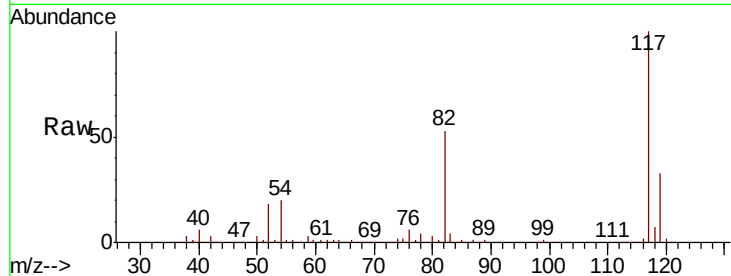




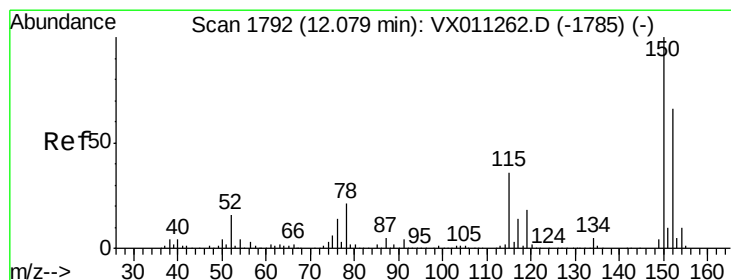
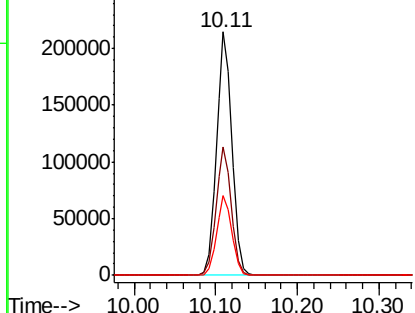
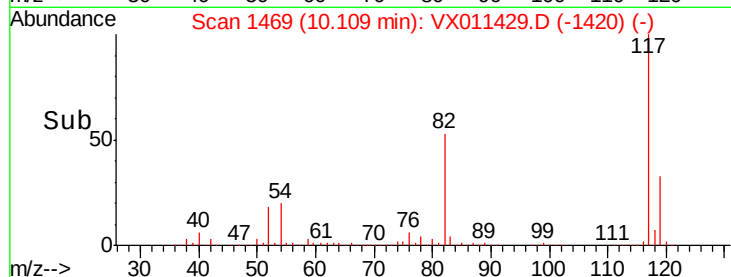
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011429.D
Acq: 11 Aug 2019 14:19

Instrument :
MSVOA_X
ClientSampled :
2S-F4-(0)

Tgt Ion:117 Resp: 286460
Ion Ratio Lower Upper
117 100
82 52.9 42.2 63.2
119 32.8 26.6 39.8

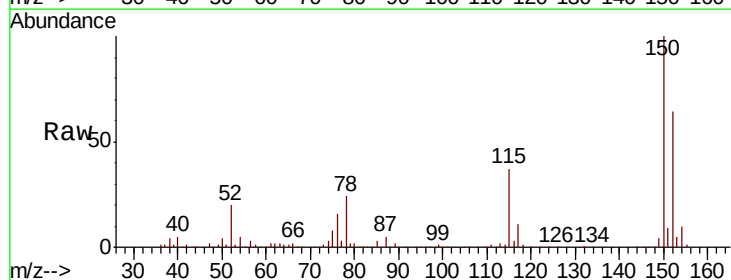


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

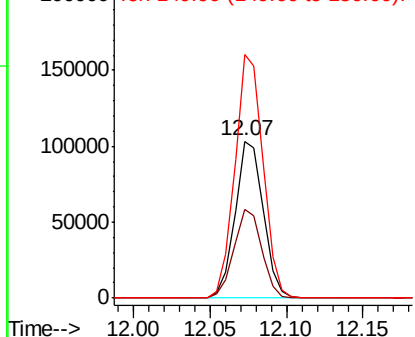
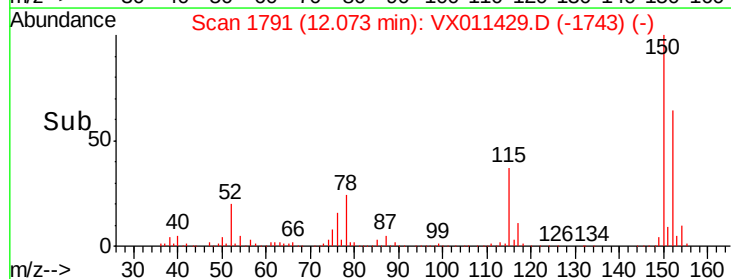


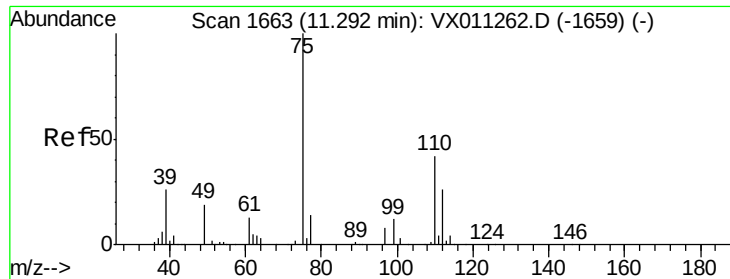
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX011429.D
Acq: 11 Aug 2019 14:19

Tgt Ion:152 Resp: 131598
Ion Ratio Lower Upper
152 100
115 56.3 40.0 119.9
150 154.9 0.0 350.4



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

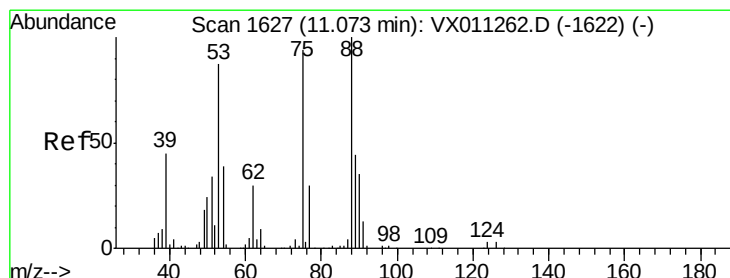
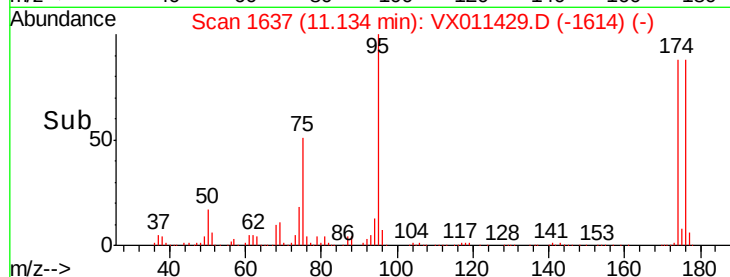
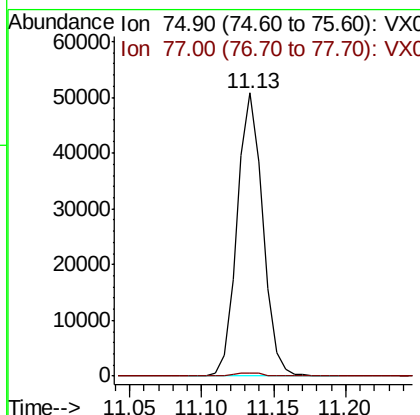
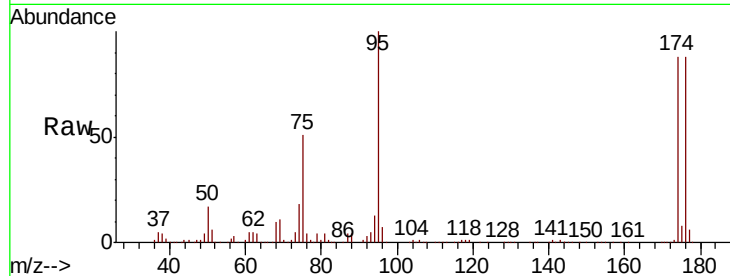




#76
 1,2,3-Trichloropropane
 Concen: 26.318 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011429.D
 Acq: 11 Aug 2019 14:19

Instrument :
 MSVOA_X
 ClientSampled :
 2S-F4-(0)

Tgt Ion: 75 Resp: 63073
 Ion Ratio Lower Upper
 75 100
 77 1.3 21.1 63.4#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.441 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011429.D
 Acq: 11 Aug 2019 14:19

Tgt Ion: 75 Resp: 63073
 Ion Ratio Lower Upper
 75 100
 53 0.3 78.2 117.4#
 89 0.1 37.9 56.9#

